## PART VI.-PRODUCTION.

Disposal of Crown lands.

Land Acts
1869 and 1878.

Selection under nonresidence clause.

Crown lanảs alienated to end of 1878. selected.
495. Changes at various periods have taken place in the mode of disposing of Crown lands in Victoria. A detailed account of these was given in the Victorian Year-Book. 1874.* It will therefore only be necessary on this occasion to describe the system at present in force.
496. The Land Act in operation is that of 1869 (33 Vict. No. 360), as amended by the Land Act 1878 (42 Vict. No. 634), which came into operation at the beginning of 1879. Under these Statutes an extent of land not exceeding 320 acres is allowed to be selected by one person. The selection is held under license for six years, within which period the licensee must reside on his selection at least five years, must enclose it, cultivate 1 acre out of every 10 acres, and generally effect improvements to the value of 20s. per acre. The rent payable during this period is 1s. per acre per annum, which is credited to the selector as part payment of the principal. At the expiration of the six years' license, the selector, if he obtain a certificate from the Board of Land and Works that he has complied with these conditions, may either purchase his holding by paying the balance of 14 s . per acre, or may convert his license into a lease extending over fourteen years, at an annual rental of 1 s . per acre, which is also credited to the selector as part payment of the fee-simple. On the expiry of this lease the land becomes the freehold of the selector. The Statute also contains provision for the sale of Crown lands by auction at an upset price of $£ 1$ per acre, or such higher sum as the Governor may direct, the whole amount to be so sold in any one year not to exceed 200,000 acres.
497. The amending Land Act also contains provision for selection by persons who need not reside on their selections. In such cases, however, the rent is 2 s . per acre, and the total price to be paid for the land $£ 2$ per acre. Improvements to the value of $£ 2$ per acre, moreover; have to be made during the six years' license, of which at least half must be made before the expiration of the third year. Such licenses are not to be issued in any one year for more than 200,000 acres.
498. The total extent sold up to the end of 1878 was $11,454,527$ acres, and the extent granted without purchase was 4,107 acres. The whole area alienated in fee-simple was thus $11,458,634$ acres.
499. The selected lands of which the purchase had not been completed up to the end of the year amounted to $9,114,712$ acres. Of this
extent it is estimated that $2,050,000$ acres had been forfeited or abandoned, and had reverted to the Crown. The remainder, representing approximately the whole area in process of alienation under deferred payments, amounted to $7,064,712$ acres.
500. According to the latest estimate, the total area of the colony is $56,446,720$ acres ; and if from this be deducted the sum of the lands granted, sold, and selected, amounting to $18,523,346$ acres, it will follow that the residue, representing the Crown lands neither alienated nor in process of alienation, amounted at the end of 1878 to $37,923,374$ acres.
501. The whole of this residue, however, is not available for selection, for it embraces lands occupied by roads, the unsold portions of the sites of towns, the State forests, auriferous, pastoral, and timber reserves, and land which is at present useless, owing to its mountainous character or to its being covered with mallee scrub, lakes, or lagoons. Deducting these lands from the extent unalienated and unselected, already stated to have been $37,923,374$ acres, it will be found that the area open for selection is narrowed to $11,422,885$ acres. This will be at once seen by the following table, which shows the position of the public estate at the end of 1878 :-

Public Estate of Victoria on 31st December 1878.

| Condition of Land. | Number of Acres. |
| :---: | :---: |
| Land alienated in fee-simple ... ... ... ... ... | 11,458,634 |
| Land in process of alienation under deferred payments ... . ... | 7,064,712 |
| Roads in connection with the above ... ... ... ... | 1,035,301 |
| Unsold land included in town reserves ... ... ... ... | 300,000 |
| Reserves in connection with pastoral occupation (about)... ... | 350,000 |
| Auriferous land * (about) ... ... ... ... | 1,022,000 |
| Auriferous land selected without right of purchase ... ... | 132,584 |
| State forests not included in unavailable mountain ranges . ... | 243,000 |
|  | 417,604 |
| Mallee scrub, unavailable mountain ranges, lakes, lagoons, \&c. (about) | 23,000,000 |
| Area available for selection, with right of purchase, at end of 1878 | 11,422,885 |
| Total area of Victoria | 56,446,720 |

502. Omitting the $23,000,000$ acres covered by mallee scrub, unavailable mountain ranges, lakes, lagoons, \&c., the remainder of the colony, .amounting to $33,446,720$ acres, or about 59 per cent. of the totalarea, may

Crown lands available for selec. tion.

[^0]18,523,346 acres, or 55 per cent., were already alienated or in process of alienation ; 3,500,489 acres, or 10 per cent., were occupièd by reserves; and $11,422,885$ acres, or 35 per cent., were available for selection.

## Extent

 available for selection, 1877 and 1878.Crown lands alienated, 1878.
503. The difference between the extent available for selection at the end of 1877 and at the end of 1878 was 579,702 acres. The extent so available was equal at the former period to 21 per cent. and at the latter period to 20 per cent. of the whole area of the colony.
504. The land alienated from the Crown in fee-simple during 1878 amounted to 307,514 acres. Of this extent, 307,457 acres were sold, and 57 acres were granted without purchase. A gradual falling off in the area alienated annually has taken place since 1872; and in 1878 the extent alienated was less than in any year since 1868.
505. Of the area sold, 47,375 acres, or less than a seventh, was disposed of by auction. Nearly the whole of the remainder was in the first instance selected under the system of deferred payments. A smaller extent was sold by auction in 1878 than in any year since 1870 except 1873.
506. The amount realised for Crown lands sold in 1878 was $£ 375,534$, 1878.

Area selected 1878.

Squatting runs: number and area. or at the rate of $£ 14 \mathrm{~s} .5 \mathrm{~d}$. per acre. Of this sum, only $£ 206,759$ was received during the year, the remainder having been paid in former years as rents and license fees. The proportion sold by auction realised $£ 114,173$, or an average of $£ 28 \mathrm{~s} .2 \mathrm{~d}$. per acre ; and the proportion sold otherwise than at auction realised $£ 261,361$, or an average of $£ 10$ s. $1 \frac{1}{4} \mathrm{~d}$. per acre.
507. From the period of the first settlement of the colony to the end of 1878 the amount realised by the sale of Crown lands was $£ 18,752,140$, or at the rate of $£ 112 \mathrm{~s}$. 9 d . per acre.
508. The area selected, with right of purchase, in 1878, which amounted to $1,389,955$ acres, was greater than in any previous year except 1874. The average to each selector was 185 acres.
509. The squatting runs in 1878 numbered 768 , or 33 less than in 1877. The area of Crown lands embraced in runs amounted in 1878 to $19,531,083$ acres, or $1,323,532$ acres less than in 1877 . runs.
510. The decrease in the number of squatting runs from year to year is accounted for by the fact that the best portions of the runs are often taken up by selectors, and the assessment of the remainder being considered excessive, the pastoral lessees abandon their leases, which are: forfeited, and the lands are offered for re-occupation for grazing purposes, subject to annual licenses, under the 47 th section of the Land Act 1869. The highest tender for the grazing license, which is frequently that of the former occupant, is generally accepted.
511. The average size of squatting runs was 26,036 acres in 1877 , squatting and 25,431 acres in 1878 . This is exclusive of any purchased land runs ave size. attached thereto.
512. The rent of runs is assessed in accordance with the quantity of Rent of runs. stock the land is estimated to be able to depasture, viz., 5 s. yearly for each head of cattle or horses, or 1s. yearly for each sheep. In 1877 the amount of rent payable was $£ 138,475$, or 1.594 d . (a fraction over $\left.1 \frac{1}{2} d.\right)$ per acre ; and in 1878 the amount was $£ 122,142$, or $1 \cdot 501 \mathrm{~d}$. ( $1 \frac{1}{2} \mathrm{~d}$.) per acre.*
j13. The revenue from the sale and occupation of Crown lands may Land be divided into-(1) receipts from the alienation of land in fee-simple, including the price realised from land sales, and from rents which count towards the purchase money; (2) receipts on account of temporary occupation, which include payments for squatting and grazing licenses, rents for business, factory, and hotel sites, \&c., and rents of land which do not count towards the purchase money ; (3) penalties, interest, and fees for grants, leases, licenses, \&c. There was an increase of $£ 33,000$ under the first head in 1878 as compared with 1877, but the decrease under the latter heads more than counterbalanced it, as will be seen by the following figures:-

Land Revende, 1877 and 1878.

514. The agricultural statistics of Victoria are collected by the agricultural municipal bodies, who, under the Local Government Act (38 Vict. No. 506), are required each year to furnish to the Government Statist, on or before the 31st March, at their own cost, such agricultural and other statistics relating to their districts on such forms and in such manner as the Governor in Council may direct. All persons are required to give correct information to the best of their knowledge and belief, and should they fail to do so they render themselves liable to a penalty not exceeding ten pounds. Collectors divulging or making extracts from the information they receive, except under the special direction or

[^1]authority of the Government Statist, also render themselves liable to a penalty of ten pounds.
515. The agricultural statistics* to which reference will now be made are those for the year ended 31st March 1879. Tables embodying the general results of these statistics were sent for publication in the Government Gazette on the 12th May last, and these, with additional tables, have since been printed and laid before Parliament, in Part VI. of the Statistical Register of Victoria.
516. The holdings which the collectors are required to visit are all blocks of alienated land above one acre in extent, which are occupied for agricultural or pastoral purposes. Each distinct occupation is considered to be a holding, without reference to its proprietorship, and each of several holdings in different localities owned by one person is necessarily reckoned as a distinct holding.

Land in occupation.
517. The extent of land in occupation of which a return is made is always less than the whole area alienated and selected. The collectors are not required to take account of holdings which do not exceed one acre, nor of gardens or grounds attached to residences which are kept merely for ornament and pleasure, nor of any lands which show no signs of occupation, or which are used for other purposes than agriculture or the keeping of stock. It is, moreover, possible that in a few instances the collectors may not be aware of the existence of, and consequently may not penetrate to, some isolated blocks of purchased land held in connection with squatting stations at a distance from agricultural districts. The agricultural statistics for the present year account for over 86 per cent. of the extent alienated and in process of alienation at the end of 1878.
518. A statement of the number of holdings, and of the extent of

Land occupied and cultivated. land occupied and cultivated, in the year under review and the previous one, will be found in the following table. All the items show increase :-

> Holdings and Land $\dagger$ Occupied and Cultivated, 1878 and 1879.

| Year ended 31st March. |  | Namber of Holdings <br> larger than 1 acre. | Acres <br> Occupied. | Acres. <br> under Tillage. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1878 | $\ldots$ | $\ldots$ | $\ldots$ | 45,448 | $14,806,926$ |
| 1879 | $\ldots$ | $\ldots$ | $\ldots$ | 47,050 | $15,901,403$ |

[^2]519. During the decenniad ended with the year under review the Increase in holdings have increased by three-fifths, and the land occupied by fourfifths, whilst the land in cultivation has more than doubled. This will occupied land, \&c., in ten years. be seen by the following figures:-

Ingrease in 1879 as compared with 1869.

|  |  |  |  | Numerical. | Per cent. |
| :--- | :--- | :--- | :--- | ---: | ---: |
|  |  |  |  |  |  |
| Holdings $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 17,832 | 61 |
| Acres occupied | $\ldots$ | $\ldots$ | $\ldots$ | $7,017,210$ | 79 |
| Acres cultivated | $\cdots$ | $\cdots$ | $\cdots$ | 896,413 | 126 |

520. The following table shows the area per head cultivated in each Australasian colony during the five seasons ended with that of 1877-8, also the mean of those seasons, the colonies being placed in order according to the average extent of land per head that each cultivates. It will be observed that South Australia cultivates much more, and New South Wales and Queensland cultivate much less, per head than any of the other colonies. It is satisfactory to find, however, that in all the colonies except Western Australia the figures for the last year named in the table are higher than those for any previous year :-
Cultivation per Head in Australasian Colonies, 1874 to 1878.*

| Colony. | Acres under. Tillage per Head of Population. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1873-4. | 1874-5. | 1875-6. | 1876-7. | 1877-8. | Mean of Five Years. |
| 1. South Australia... | 6.18 | 6.50 | 6.86 | 6.71 | 7-72 | 6.79 |
| 2. Tasmania ... | $1 \cdot 61$ | 3.13 | $3 \cdot 21$ | $3 \cdot 15$ | 3-26 | $2 \cdot 87$ |
| 3. Western Australia | $2 \cdot 01$ | $1 \cdot 73$ | $1 \cdot 78$ | 1-68 | $1 \cdot 82$ | $1 \cdot 80$ |
| 4. New Zealand $\dagger$... | 1-27 | $1 \cdot 61$ | 1-62 | $1 \cdot 97$ | $2 \cdot 30$ | $1 \cdot 75$ |
| 5. Victoria ... | 1-22 | $1 \cdot 25$ | $1 \cdot 37$ | $1 \cdot 47$ | $1 \cdot 65$ | 1-39 |
| 6. New South Wales | - 82 | - 80 | - 74 | - 82 | - 83 | -80 |
| 7. Queensland ... | - 43 | - 39 | -43 | -46 | - 52 | - 45 |

521. The following table shows the extent of land in Victoria placed Land under under the principal crops in 1878 and 1879. An increase will be props. observed in the land under all these crops except potatoes and hay. The extent under potatoes in 1879 was less than in any of the previous ten years, except 1869 and 1875, but that under hay-though less than in 1878-was greater than in any previous year. During the past three years wheat was much more extensively cultivated than formerly. Prior to 1877 the extent under that crop never reached 400,000 acres.
[^3]Land under Principal Crops, 1878 and 1879.

| Year ended 31st March. | Wheat. | Oats. | Barley. | Potatoes. | Hay. | Green Forage. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1878 | $\begin{gathered} \text { acres. } \\ 564,564 \end{gathered}$ | $\begin{aligned} & \text { acres. } \\ & 105,234 \end{aligned}$ | acres. 19,116 | acres. 37,107 | acres. 176,951 | . acres. |
| 1879 | 691,622 | 134,428 | 22,871 | 36,527 | 172,799 | 401,427 |
| Increase ... | 127,058 | 29,194 | 3,755 | . | -. | 11,097 |
| Decrease... | ... | ... | ... | 580 | 4,152 | ... |

Produce of principal crops.

Wheatproducing counties.
522. The gross produce of the same crops, except green forage, is shown as follows for 1878 and 1879. It will be observed that the yield of wheat and potatoes was less in the latter year than in the former, but the reverse was the case as regards oats, barley, and hay. More wheat, however, was produced in 1879 than in any previous year except 1878, but the gross produce of the potato crop was less than in any year since 1869 :-

Gross Produce of Principal Crops, 1878 and 1879.

| Year ended 31st March. | Wheat. | Oats. | Barley. | Potatoes. | Hay. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1878 | $\begin{gathered} \text { bushels. } \\ 7,018,257 . \end{gathered}$ | $\begin{gathered} \text { bushels. } \\ 2,040,486 \end{gathered}$ | bushels. $378,706$ | tons. $115,419$ | tons. 208,151 |
| 1879 ... | 6,060,737 | 2,366,026 | 417,157 | 98,958 | 209,028 |
| Increase ... |  | 325,540 | 38,451 |  | 877 |
| Decrease... | 957,520 | ... |  | 16,461 | ... |

523. The following table shows for each of the last three years the produce of wheat in eleven counties, which, for the most part, lie between the 36 th and 37 th parallels of latitude, and the 142 nd and 147th meridians, and which are above all others the wheat-producing counties of Victoria.

Wheat ratsed in Eleven Counties, 1877, 1878, and 1879.

| Counties. |  |  | Number of Bushels Produced. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1870-7. | 1877-8. | 1878-9. |
| Bendigo | ... | $\ldots$ | 763,984 | 795,398 | 727,195 |
| Bogong | ... | ... | 264,571 | 333,414 | 136,574 |
| Borung | ... | $\ldots$ | 336,156 | 720,007 | 1,291,947 |
| Dalhousie | $\ldots$ | $\ldots$ | 170,817 | 192,080 | 106,305 |
| Delatite | ... | ... | 252,946 | 278,947 | 115,639 |
| Gladstone | ... | ... | 342,485 | 472,224 | 578,157 |
| Gunbower | .. | ... | 169,105 | 250,298 | 218,348 |
| Kara Kara | ... | ... | 436,834 | 598,661 | 651,142 |
| Moira | ... | ... | 568,004 | 889,774 | 317,465 |
| Rodney | ... | $\ldots$ | 697,027 | 1,016,849 | 451,435 |
| Talbot | ... | $\ldots$ | 462,695 | 449,405 | 414,473 |
| Total | $\cdots$ | ... | 4,464,624 | 5,997,057 | 5,008,680 |

524. In 1876-7 five-sixths, in 1877-8 six-sevenths, and in 1878-9 Decreased five-sixths of the wheat raised in Victoria was grown in the eleven $\begin{gathered}\text { yield of } \\ \text { wheat in }\end{gathered}$ counties named in the last table. It will be observed that the decrease in the wheat crop already alluded to* is more than accounted for by the falling-off in these counties. The three counties on the extreme west of the group-viz., Borung, Gladstone, and Kara Kara-are the only ones which show higher figures for 1878-9 than for the previous year; whilst the greatest decrease occurs in the most easterly counties, viz., Bogong, Delatite, Moira, and Rodney. The cause of the falling-off has been attributed to rust and drought. In Moira alone the crop on 17,500 acres, or more than a fifth of the area under wheat in that county, is stated to have been totally destroyed by the former.
525. The average produce of wheat per acre in the various counties in the colony in 1878-9 is compared in the following table with that in the previous year. The counties are arranged according to the average yield in the past season, and the eleven counties just referred to are marked with daggers. It will be observed that there is a considerable falling-off in nearly every county, and it may be stated that in only two counties in 1878-9, as against seventeen in 1877-8, was there a higher yield than the average of the whole colony during the eleven years ended with 1877-8, viz., $14 \frac{1}{3}$ bushels :-

Average Produce of Wheat in each Countiy, 1878 and 1879.

| Counties. | Bushels of Wheat per Acre. |  | Counties. | Bushels of Wheat per Acre. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1877-8. | 1878-9. |  | 1877-8. | 1878-9. |
| Tambo | $13 \cdot 91$ | $19 \cdot 12$ | $\dagger$ Borung | $10 \cdot 05$ | 10.95 |
| Ripon | 13•38 | 14*36 | $\dagger$ Kara Kara | 10:14 | $10 \cdot 73$ |
| Dundas | 17-85 | 14.23 | Tatchera | 5.45 | $10 \cdot 55$ |
| Grenville | $12 \cdot 42$ | $13 \cdot 74$ | Buln Buln | $17 \cdot 10$ | $10 \cdot 43$ |
| Grant | $17 \cdot 55$ | $13 \cdot 64$ | $\dagger$ Gladstone | $10 \cdot 78$ | $10 \cdot 08$ |
| Heytesbury | 17-95 | $13 \cdot 60$ | Polwarth | 16.56 | $9 \cdot 30$ |
| Dargo | $20 \cdot 17$ | $13 \cdot 49$ | $\dagger$ Bendigo | 11:48 | 8-79 |
| Lowan | $9 \cdot 63$ | $13 \cdot 46$ | $\dagger$ Dalhousie | $15 \cdot 09$ | $8 \cdot 42$ |
| Villiers | 22.27 | $12 \cdot 65$ | Anglesey | 13:75 | $7 \cdot 21$ |
| Croajingolong | $6 \cdot 69$ | $12 \cdot 48$ | $\dagger$ Gunbower | 9:18 | $6 \cdot 47$ |
| Normanby . | $16 \cdot 77$ | $12 \cdot 18$ | $\dagger$ Bogong | 14.59 | $6 \cdot 00$ |
| Tanjil | $18 \cdot 24$ | $12 \cdot 01$ | Wonnangatta | 10.15 | $5 \cdot 99$ |
| $\dagger$ Talbot | $13 \cdot 02$ | 11.99 | Mornington | $20 \cdot 53$ | $5 \cdot 87$ |
| Follett | $22 \cdot 13$ | $11 \cdot 80$ | $\dagger$ Rodney | 12.82 | $5 \cdot 54$ |
| Benambra | $20 \cdot 56$ | $11 \cdot 44$ | $\dagger$ Delatite | 14:16 | $5 \cdot 38$ |
| Hampden | $13 \cdot 26$ | $11 \cdot 42$ | Evelyn | $16 \cdot 31$ | $4 \cdot 86$ |
| Bourke | $16 \cdot 06$ | 11.21 | $\dagger$ Moira ... | 14*64 | $3 \cdot 89$ |
|  |  |  | Total of Victoria | $12 \cdot 41$ | 8•76 | other principal crops in each county.

Yield of principal crops, 1869 to 1879.
526. The average produce per acre of the other principal crops during 1878-9 is given in the following table. It will be noticed that the highest acreable yield of oats was in Tambo, that of barley and hay in Villiers, and that of potatoes in Polwarth ; also, that the lowest acreable yield of oats was in Polwarth, that of hay in Gunbower, that of barley in Benambra, and that of potatoes in Gladstone :-
Average Produce of Oats, Barley, Potatoes, and Hay in each County, 1879.

| Counties. |  | Average Produce to the Acre of - |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Oats. | Barley. | Potatoes. | Hay. |
|  |  | bushels. | bushels. | tons. | tons. |
| Anglesey ... | $\ldots$ | $17 \cdot 44$ | 11.92 | $1 \cdot 48$ | $1 \cdot 07$ |
| Benambra ... | ... | $17 \cdot 98$ | 9•12 | $3 \cdot 42$ | 1-12 |
| Bendigo ... | ... | $16 \cdot 75$ | $11 \cdot 46$ | $2 \cdot 29$ | -93 |
| Bogong ... | ... | $16 \cdot 80$ | $14 \cdot 62$ | $2 \cdot 19$ | -94 |
| Borung ... | ... | $18 \cdot 44$ | $13 \cdot 13$ | $1 \cdot 80$ | -98 |
| Bourke ... | ... | 17.44 | 17.76 | $2 \cdot 73$ | 1-39 |
| Buln Buln ... | ... | $16 \cdot 46$ | $20 \cdot 18$ | $3 \cdot 31$ | $1 \cdot 14$ |
| Croajingolong | ... | $17 \cdot 54$ | $15 \cdot 00$ | $2 \cdot 71$ | $\cdot 74$ |
| Dalhousie ... | ... | $14 \cdot 13$ | 12.79 | 1-66 | $1 \cdot 15$ |
| Dargo ... |  | $15 \cdot 88$ | 18.33 | $3 \cdot 43$ | $1 \cdot 27$ |
| Delatite | ... | $13 \cdot 54$ | 13:63 | 1.58 | -89 |
| Dundas | ... | 19•97 | $23 \cdot 25$ | 1.55 | 1-62 |
| Evelyn | ... | $16 \cdot 31$ | $15 \cdot 00$ | $2 \cdot 66$ | -94 |
| Follett | ... | $19 \cdot 05$ | $23 \cdot 61$ | $1 \cdot 95$ | $1 \cdot 54$ |
| Gladstone | ... | $16 \cdot 25$ | $11 \cdot 01$ | $1 \cdot 06$ | -92 |
| Grant | ... | $17 \cdot 48$ | $22 \cdot 87$ | 3-0.7 | $1 \cdot 48$ |
| Grenville | ... | 17•79 | $23 \cdot 61$ | 1-99 | $1 \cdot 26$ |
| Gunbower ... | ... | 14.88 | $9 \cdot 37$ | $2 \cdot 33$ | - 29 |
| Hampden ... | ... | 21.96 | $26 \cdot 40$ | $2 \cdot 59$ | $1 \cdot 54$ |
| Heytesbury ... | ... | 19.94 | $24 \cdot 85$ | $2 \cdot 32$ | $1 \cdot 52$ |
| Kara Kara ... | ... | $18 \cdot 01$ | $12 \cdot 13$ | $1 \cdot 50$ | -99 |
| Lowan .. | ... | $17 \cdot 93$ | $14 \cdot 27$ | $1 \cdot 44$ | 1-14 |
| Moira ... | ... | $18 \cdot 27$ | 12-86 | 1-38 | -89 |
| Mornington ... | ... | 15•72 | $15 \cdot 26$ | $2 \cdot 97$ | $1 \cdot 02$ |
| Normanby ... | ... | $15 \cdot 51$ | $16 \cdot 79$ | 1:93 | $1 \cdot 50$ |
| Polwarth | ... | 12.79 | 17•63 | $3 \cdot 47$ | 1.92 |
| Ripon ... | ... | 20•12 | $27 \cdot 41$ | $1 \cdot 62$ | 1.57 |
| Rodney ... | ... | $17 \cdot 36$ | 12.71 | $1 \cdot 15$ | $\cdot 83$ |
| Talbot ... | ... | $20 \cdot 11$ | $18 \cdot 95$ | $2 \cdot 14$ | $1 \cdot 42$ |
| Tambo ... | ... | $22 \cdot 94$ | $24 \cdot 80$ | $3 \cdot 03$ | $1 \cdot 55$ |
| Tanjil ... | ... | $17 \cdot 31$ | $22 \cdot 96$ | $2 \cdot 32$ | 1-23 |
| Tatchera ... | ... | $13 \cdot 47$ | $12 \cdot 44$ | $2 \cdot 50$ | $\cdot 74$ |
| Villiers | ... | 22.39 | $36 \cdot 19$ | $3 \cdot 43$ | $2 \cdot 00$ |
| Weeah |  |  | .. | $\cdots$ | $1 \cdot 00$ |
| Wonnangatta | $\cdots$ | 11-19 | $14 \cdot 00$ | 2-82 | $1 \cdot 10$ |
| Total ... | $\cdots$ | $17 \cdot 60$ | $18 \cdot 24$ | $2 \cdot 71$ | $1 \cdot 21$ |

527. The following table shows the acreable yield of the five principal crops during each of the last eleven years, also the average during the whole period. The average produce of wheat in 1878-9
was the lowest on record ; that of oats was exceeded in every year of the previous decenniad except 1871 and 1874 ; that of barley in all the years except 1869 and 1871 ; that of potatoes in all the years except 1869 ; and that of hay in all the years except 1869, 1871, and 1878.

Average Produce of Principal Crops, 1869 to 1879.

| Year ended 31st March. |  |  | Average Produce per Acre of- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wheat | Oats. | Barley. | Potatoes. | Hay. |
| 1869 | ... |  | $\begin{array}{r} \text { bushels. } \\ 16 \cdot 28 \end{array}$ | bashels. $19 \cdot 65$ | $\begin{aligned} & \text { bushels. } \\ & 15-23 \end{aligned}$ | $\begin{aligned} & \text { tons. } \\ & 2 \cdot 21 \end{aligned}$ | $\begin{aligned} & \text { tons. } \\ & 1 \cdot 09 \end{aligned}$ |
| 1870 | ... | $\ldots$ | 19-75 | $25 \cdot 98$ | 24.55 | $3 \cdot 09$ | $1 \cdot 60$ |
| 1871 | ... |  | 10.10 | 14.98 | 12-26 | 3-27 | $1 \cdot 13$ |
| 1872 | ... | ... | $13 \cdot 45$ | 18.76 | 20.00 | $3 \cdot 22$ | $1 \cdot 40$ |
| 1873 | ... | ... | 16.51 | 19.55 | 20.86 | 3.45 | $1 \cdot 32$ |
| 1874 | ... | ... | 13.58 | $15 \cdot 69$ | 19-84 | $2 \cdot 86$ | 1.27 |
| 1875 | ... | ... | 14.57 | $18 \cdot 46$ | 21.01 | $3 \cdot 53$ | $1 \cdot 32$ |
| 1876 | ... | ... | $15 \cdot 49$ | 21.92 | $22 \cdot 20$ | $3 \cdot 37$ | $1 \cdot 33$ |
| 1877 | ... | ... | $13 \cdot 15$ | 19-91 | $21 \cdot 18$ | 3-31 | $1 \cdot 22$ |
| 1878 | ... | ... | $12 \cdot 41$ | 19-39 | 19•81 | $3 \cdot 11$ | $1 \cdot 18$ |
| 1879 | ... | ... | 8-76 | $17 \cdot 60$ | 18.24 | $2 \cdot 71$ | 1-21 |
| Average of eleven years |  |  | $13 \cdot 39$ | 19-28 | 19-93 | $3 \cdot 04$ | $1 \cdot 27$ |

528. In the following table the average yield of wheat, oats, potatoes, Averase and hay in Victoria is placed side by side with the average of the same crops in the other Australasian colonies* during each of the five years ended with 1878. Acsording to the mean of the quinquenniad, the average produce of wheat, oats, and potatoes is highest in New Zealand, and that of hay in New South Wales. Victoria stands fourth in regard to the average per acre of wheat and potatoes, third in regard to that of oats, and sixth in regard to that of hay:-

## Average Produce of Principal Crops in Australasian Colonies, 1874 то 1878.

| Colony. | Year ended 31st March. |  |  |  |  | Mean. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1874. | 1875. | 1876. | 1877. | 1878. |  |

Wheat : Bushels prr Acre.

| Victoria | 13.58 | 14.57 | 15-49 | 13•15 | 12.41 | $13 \cdot 84$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New South Wales | $13 \cdot 43$ | 12.87 | 14.66 | 16.43 | $13 \cdot 84$ | $14 \cdot 25$ |
| Queensland ... |  | -.. |  | $\cdots$ | 10.63 | $10 \cdot 63$ |
| South Australia | 7-87 | 11-75 | 11.95 | $5 \cdot 40$ | 7-76 | 8.95 |
| Western Australia | 13.44 | 12.00 | 11.00 | $12 \cdot 00$ | 11.00 | $11 \cdot 89$ |
| Tasmania | $16 \cdot 17$ | 18.51 | $16 \cdot 38$ | 19•30 | $18 \cdot 12$ | 17•70 |
| New Zealand | $25 \cdot 61$ | 28-15 | 31-54 | 28-63 | 26:03 | 27-99 |

[^4]
## Average Produce of Principal Crops in Australasian Colontes, 1874 то 1878-continued.

| Colony. | Year ended 31st March. |  |  |  |  | Mean. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1874. | 1875. | 1876. | 1877. | 1878. |  |

Oats : Bushels per Acre.

|  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Victoria |  | $15 \cdot 69$ | $18 \cdot 46$ | $21 \cdot 92$ | $19 \cdot 91$ | $19 \cdot 39$ |
| New South Wales | $18 \cdot 71$ | $16 \cdot 31$ | $18 \cdot 72$ | $21 \cdot 16$ | $19 \cdot 31$ | $18 \cdot 07$ |
| Queensland $\ldots$ | $\ldots$ | $\ldots$ | $\ldots .84$ |  |  |  |
| South Australia | 10.61 | $14 \cdot 61$ | $16 \cdot 69$ | 10.65 | $10 \cdot 11$ | $10 \cdot 11$ |
| Western Australia | $19 \cdot 22$ | $16 \cdot 00$ | $15 \cdot 00$ | $15 \cdot 00$ | $11 \cdot 96$ | $12 \cdot 90$ |
| Tasmania $\ldots$ | $20 \cdot 98$ | $26 \cdot 82$ | $25 \cdot 40$ | $24 \cdot 21$ | $22 \cdot 32$ | $15 \cdot 84$ |
| New Zealand $\ldots$. | $29 \cdot 81$ | $35 \cdot 22$ | $39 \cdot 34$ | $31 \cdot 24$ | $31 \cdot 68$ | 33.95 |
|  |  |  |  |  |  |  |

Potatoes: Tons per Acre.


Hay: Tons per Acre.

| Victoria | $1 \cdot 27$ | 1-32 | 1-33 | 1-22 | $1 \cdot 17$ | $1 \cdot 26$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New South Wales | $1 \cdot 54$ | $1 \cdot 37$ | $1 \cdot 15$ | 1.43 | 1.22 | 1.34 |
| Queensland ... | ... | ... |  |  | $1 \cdot 30$ | $1 \cdot 30$ |
| South Australia | 1-02 | 1-26 | $1 \cdot 21$ | 1-95 | $1 \cdot 13$ | 1-31 |
| Western Australia | $2 \cdot 00$ | 1950 | $1 \cdot 00$ | $1 \cdot 00$ | $1 \cdot 00$ | $1 \cdot 30$ |
| Tasmania .. | 1.08 | 1-35 | $1 \cdot 42$ | 1-21 | $1 \cdot 13$ | $1 \cdot 24$ |
| New Zealand ... | 1-43 | -84 | $1 \cdot 46$ | $1 \cdot 31$ | $1 \cdot 30$ | $1 \cdot 27$ |

[^5]Land under crop in Britain and Foreign countries.
529. The next table shows the acreage under wheat, oats, barley, and potatoes in the United Kingdom, the Cape of Good Hope, and certain Foreign countries. All the information has been taken from official documents.

Land under certain Crops in the United Kingdom, the Cape Colony, and Foreign Countries (000's omitted).

| Country. |  | Year. | Number of Acres under- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wheat. | Oats. | Barley. | Potatoes. |
| The United Kingdom | ... | 1878 | 3,382 | 4,124 | 2,723 | 1,365 |
| Cape of Good Hope | ... | 1875 | 188 | 114 | ${ }^{29}$ | 1,9 |
| Austria | ... | 1876 | 2,420 | 4,413 | 2,753 | 2,410 |
| Baden .... | ... | 1876 | -89 | 139 | 153 | 207 |
| Belgium \% ... | ... | 1866 | 700 | 567 | 108 | 423 |
| Denmerk | ... | 1876 | 140 | 864 | 699 | 96 |
| France | ... | 1875 | 17,231 $\dagger$ | 7,859 | 2,576 | 2,954 |
| Holland | ... | 1874 | 236 | 278 | 122 | 327 |
| Hungary | ... | 1875 | 5,654 | 2,429 | 2,242 | 944 |
| Italy | ... | 1874 | 11,551 | 985 | 1,148 | 169 |
| Norway ... | ... | 1870 | 12 | 220 | 122 | 77 |
| Prussia ... | ... | 1876 | 4,196 | 6,714 | 3,357 | $\cdots$ |
| Russia in Europe | ... | 1872 | 28,743 | 32,819 | 15,512 | 3,169 |
| Saxony ... | ... | 1876 | 108 | 411 | 98 | 253 |
| Sweden ... | ... | 1876 | $\ldots$ | $\cdots$ | ... | 374 |
| United States... | ... | 1875 | 26,382 | 11,915 | 1,790 | 1,510 |
| Wurtemberg ... | ... | 1876 | 47 | 331 | 244 | 189 |

530. The agricultural statistics collected by the Imperial Board of Gross yield Trade do not give the amount of produce raised in the United Kingdom. The official returns of the Cape Colony and many Foreign counof crops in Foreign countrieg. tries, however, contain statements of produce, and these, so far as they are available, are given in the following table. The produce of potatoes is not returned in tons, as in the Australasian colonies, but in bushels:-

Gross Produce of certain Crops in the Cape Colony and Foreign Countries (000's omitted).

| Country. |  | Year. | Number of Bushels* raised of- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wheat. | Oats. | Barley. | Potatoes. |
| Cape of Good Hope | ... | 1875 | 1,688 | 918 | 448 | 371 |
| Austria ... | ... | 1876 | 33,966 | 90,974 | 49,869 | 251,029 |
| Baden* | ... | 1876 | 719 | 1,062 | 1,317 | 12,214 |
| Belgium ... | ... | 1866 | 14,203 | 23,364 | 3,666 | 47,417 |
| Denmark ... | ... | 1876 | 3,894 | 24,267 | 17,998 | 10,357 |
| France | $\ldots$ | 1875 | 279,649 $\dagger$ | 189,830 | 50,686 | 411,818 |
| Holland ... | ... | 1874 | 6,190 | 12,648 | 5,415 | 54,481 |
| Hungary ... | ... | 1875 | 47,392 | 21,516 | 20,913 | 39,707 |
| Italy ... | ... | 1874 | 142,423 | 19,370 | 18,417 | 19,387 |
| Norway | ... | 1875 | 254 | 8,846 | 4,324 | 18,825 |
| Prussia ... | ... | 1876 | -86,640 | 224,245 | 89,698 | ... |
| Russia in Europe | ... | 1872 | 157,938 | 543,623 | 124,754 | 370,876 |
| Saxony* ... | ... | 1876 | 1,320 | 4,958 | 1,114 | 22,266 |
| Sweden ... | ... | 1876 | 2,716 | 35,638 | 11,820 | 46,041 |
| United States* | ... | 1875 | 292,136 | 354,317 | 36,909 | 166,877 |
| Wurtemberg ... | $\cdots$ | 1876 | 836 | 9,300 | 5,673 | 22,419 |

[^6] countries.

Breadstuffs available for consumption.
531. The average produce per acre in most of the countries named has been ascertained, and is given in the following table :-

Average Produce per acre of certain Crops in the Cape Colony and Foreign Countries.

| Country. |  | Year. | Bushels* per Acre of- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wheat. | Oats. | Barley. | Potatoes. |
| Cape of Good Hope | $\ldots$ | 1875 | $9 \cdot 0$ | 8.1. | $15 \cdot 4$ | $41 \cdot 2$ |
| Austria ... | ... | 1876 | $14 \cdot 0$ | $20 \cdot 6$ | $18 \cdot 1$ | 104•1 |
| Belgium ... | ... | 1866 | $20 \cdot 3$ | $41 \cdot 2$ | $33 \cdot 9$ | 112.1 |
| Denmark ... | ... | 1876 | $27 \cdot 8$ | $28 \cdot 1$ | $25 \cdot 7$ | 108.0 |
| France | $\cdots$ | 1875 | 16.2† | $24 \cdot 1$ | $19 \cdot 7$ | 139.4 |
| Holland | ... | 1874 | 26.2 | $45 \cdot 4$ | $44^{\cdot 3}$ | $166 \cdot 6$ |
| Italy... | ... | 1874 | $12 \cdot 3$ | $19 \cdot 6$ | $16 \cdot 0$ | $114 \cdot 7$ |
| Norway | ... | 1875 | $21 \cdot 2$ | $40 \cdot 2$ | $35 \cdot 4$ | 244.1 |
| Prussia |  | 1876 | $20 \cdot 7$ | $33 \cdot 4$ | $26 \cdot 7$ | ... |
| Russia in Europe | ... | 1872 | $5 \cdot 5$ | 16"5 | 8.0 | $117 \cdot 0$ |
| Sweden ... | ... | 1876 | $\cdots$ | ... | $\cdots$ | $123 \cdot 1$ |
| United States* |  | 1875 | $11 \cdot 1$ | 29•7 | $20 \cdot 6$ | $110 \cdot 5$ |
| Wurtemberg ... | ... | 1876 | $17 \cdot 8$ | $28 \cdot 1$ | $23 \cdot 2$ | $118 \cdot 8$ |

532. Only in five years, since Port Phillip was first settled, has the colony raised enough breadstuffs for the consumption of its own inhabitants. The year 1877 was one of these, as also was 1878, the transactions in the latter having resulted in a net export of $1,005,968$ bushels, which is by far the largest surplus of breadstuffs ever exported from the colony during any year. This will be seen by the following table, which shows for each of the years from 1840 to 1878 the quantity of breadstuffs available for consumption, distinguishing the Victorian grown from the imported; also the probable manner of consumption, distinguishing the estimated quantity of wheat used for seed from the wheat, flour, bread, and biscuit used for food :-

Breadstuffs Available for Consumption, 1840-1878.

| Year. | Mean Population. | Wheat, Flour, Bread, and Biscuit. $\ddagger$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Available for Consumption. |  |  | Probable Manner of Consumption. |  |  |
|  |  | Grown in Victoria. | Imported after deducting Exports. | Total. | For Seed.§ | For Food. |  |
|  |  |  |  |  |  | Total. | Per Head. |
| 1840 | 8,05 | bushels. $12,600$ | bushels. 57,771 | bushels. $70,371$ | bushels. $3.880$ | bushels. 66,491 | bushels. 8.25 |
| 1841 | 15,353 | 50,420 | 116,350 | 166,770 | 3,404 | 163,366 | 10.64 |
| 1842 | 22,107 | 47,840 | 119,004 | 166,844 | 4,864 | 161,980 | $7 \cdot 33$ |
| 1843 | 23,951 | 55,360 | 58,616 | 113,976 | 9,348 | 104,628 | $4 \cdot 37$ |

[^7]Brendstuffs Available for Consumption, 1840-1878-continued.

| Year. | $\begin{aligned} & \text { Mean } \\ & \text { Popula- } \\ & \text { tion. } \end{aligned}$ | Wheat, Flour, Bread, and Biscrit.* |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A vailable for Consumption. |  |  | Probable Manner of Consumption. |  |  |
|  |  | Grown in Victoria. | Imported after deducting Exports. | Total. | For Seed. $\dagger$ | For Food. |  |
|  |  |  |  |  |  | Total. | Per Head. |
|  |  | bushels. | bushels. | bushels. | bushels. | bushels. | bushels. |
| 1844 | 25,418 | 104,040 | 98,581 | 202,621 | 13,839 | 188,782 | $7 \cdot 43$ |
| 1845 | 29,007 | 138,436 | 74,699 | 213,135 | 22,933 | 190,202 | $6 \cdot 56$ |
| 1846 | 34,807 | 234,734 | 43,928 | 278,662 | 31,604 | 247,058 | $7 \cdot 10$ |
| 1847 | 40,635 | 345,946 | 36,871 | 382,817 | 35,359 | 347,458 | $8 \cdot 55$ |
| 1848 | 47,163 | 349,730 | 64,726 | 414,456 | 38,775 | 375,681 | $7 \cdot 97$ |
| 1849 | 58,805 | 410,220 | 76,092 | 486,312 | 48,494 | 437,818 | $7 \cdot 45$ |
| 1850 | 71,191 | 525,190 | 55,564 | 580,754 | 57,020 | 523,734 | $7 \cdot 36$ |
| 1851 | 86,825 | 556,167 | 216,811 | 772,978 | 59,247 | 713,731 | $8 \cdot 22$ |
| 1852 | 132,905 | 733,321 | 1,208,006 | 1,941,327 | 33,646 | 1,907,681 | 14.35 |
| 1853 | 195,378 | 498,704 | 1,499,994 | 1,998,698 | 15,107 | 1,983,591 | $10 \cdot 15$ |
| 1854 | 267,371 | 154,202 | 1,385,465 | 1,539,667 | 25,654 | 1,514,013 | $5 \cdot 66$ |
| 1855 | 338,315 | 250,091 | 1,985,496 | 2,235,587 | 85,372 | 2,150,215 | $6 \cdot 36$ |
| 1856 | 380,942 | 1,148,011 | 2,236,406 | 3,384,417 | 160,310 | 3,224,107 | $8 \cdot 46$ |
| 1857 | 430,347 | 1,858,756 | 1,958,905 | 3,817,661 | 174,460 | 3,643,201 | $8 \cdot 47$ |
| 1858 | 483,827 | 1,808,439 | 1,504,760 | 3,313,199 | 156,468 | 3,156,731 | 6.52 |
| 1859 | 517,226 | 1,563,113 | 1,957,610 | 3,520,723 | 214,185 | 3,306,538 | 6.39 |
| 1860 | 539,337 | 2,296,157 | 1,565,423 | 3,861,580 | 322,503 | 3,539,077 | $6 \cdot 56$ |
| 1861 | 541,012 | 3,459,914 | 1,522,517 | 4,982,431 | 393,844 | 4,588,587 | $8 \cdot 48$ |
| 1862 | 548,450 | 3,607,727 | 183,106 | 3,790,833 | 324,018 | 3,466,815 | $6 \cdot 32$ |
| 1863 | 561,322 | 3,008,487 | 191,107 | 3,199,594 | 298,784 | 2,900,810 | $5 \cdot 17$ |
| 1864 | 589,160 | 1,338,762 | 1,868,990 | 3,207,752 | 250,080 | 2,957,672 | 5.02 |
| 1865 | 616,375 | 1,899,378 | 1,800,932 | 3,700,310 | 357,256 | 3,343,054 | $5 \cdot 42$ |
| 1866 | 634,077 | 3,514,227 | 1,754,699 | 5,268,926 | 417,176 | 4,851,750 | $7 \cdot 65$ |
| 1867 | 649,826 | 4,641,205 | 15,190 | 4,656,395 | 433,978 | 4,222,417 | 6.50 |
| 1868 | 671,222 | 3,411,663 | 162,038 | 3,573,701 | 519,608 | 3,054,093 | $4 \cdot 55$ |
| 1869 | 696,942 | 4,229,228 | 719,589 | 4,948,817 | 577,028 | 4,371,789 | $6 \cdot 27$ |
| 1870 | 709,839 | 5,697,056 | -95,654 | 5,601,402 | 568,334 | 5,033,068 | 7.09 |
| 1871 | 738,725 | 2,870,409 | 1,179,583 | 4,049,992 | 669,218 | 3,380,774 | 4.58 |
| 1872 | 760,991 | 4,500,795 | 389,963 | 4,890,758 | 653,128 | 4,237,630 | $5 \cdot 57$ |
| 1873 | 780,362 | 5,391,104 | -138,088 | 5,253,016 | 699,952 | 4,553,064 | $5 \cdot 83$ |
| 1874 | 798,688 | 4,752,289 | -40,714 | 4,711,575 | 665,872 | 4,045,703 | $5 \cdot 06$ |
| 1875 | 815,034 | 4,850,165 | 200,369 | 5,050,534 | 642,802 | 4,407,732 | $5 \cdot 41$ |
| 1876 | 830,679 | 4,978,914 | 258,931 | 5,237,845 | 802,834 | 4,435,011 | $5 \cdot 34$ |
| 1877 | 849,870 | 5,279,730 | -384,118 | 4,895,612 | 1,129,128 | 3,766,484 | $4 \cdot 43$ |
| 1878 | 869,040 | 7,018,257 | -1,005,968 | 6,012,289 | 1,383,244 | 4,629,045 | $5 \cdot 33$ |

Note.-The minus sign ( - ) indicates that the exports exceeded the imports by the quantity represented by the figures to which it is prefixed.
533. The estimated average quantity of breadstuffs available for food Consumption of breadof bread-
stuffs per head. table. This will be found to vary in different year's, ranging from over

[^8]14 bushels in 1852, and between 10 and 11 bushels in 1841 and 1853, to $4 \frac{1}{3}$ bushels in 1843, and about $4 \frac{1}{2}$ bushels in 1868, 1871, and 1877. The quantity in the last-named year was less than that in any other year since 1843, but that in 1878 was about equal to what it was in each of the five years from 1872 to 1876 .

Arerageconsumption of breadstuffs.
534. The quantity of breadstuffs available for annual food-consumption per head has averaged $6 \frac{1}{7}$ bushels over the whole period of thirtynine years. It has averaged $5 \frac{1}{2}$ bushels during the last ten years, and $5 \frac{1}{9}$ bushels during the last five years. In the present state of our population, it may be fair to assume that an allowance of from 5 to $5 \frac{1}{2}$ bushels per head, irrespective of the quantity required for seed, is amply sufficient to supply the wants of any given year.

Imports and exports of breadstaffs, 1837 to 1878.

Net imports of agricultural products.
535. The imports and exports of breadstuffs during the forty-two years, 1837 to 1878, are set down in the following table. It will be observed that, after deducting the value of the quantities sent away, there remains a balance amounting to $11 \frac{1}{3}$ millions sterling paid by the colony for breadstuffs imported :-

Impqrtśs and Exports of Breadstuffs,* 1837 to 1878.

| Wheat, Flour, Bread, and Biscuit. | Quantity. | Value. |
| :---: | :---: | :---: |
| Imported, 1837 to 1878 ... ... | bushels. $32,018,849$ | $\begin{gathered} £ \\ 13,702,249 \end{gathered}$ |
| Exported, ," , ... ... | 7,030,166 | 2,336,123 |
| Imports in excess of exports... | 24,988,683 | 11,366,126 |

536. The following are the values of the net imports-i.e., the values of imports after the values of the exports have been deducted-of certain articles of farm and garden produce during each of the four years ended with 1878. All the articles named are capable of being produced, and all, or nearly all, are to a certain extent now produced in the colony. It will be observed that wheat and oatmeal are absent from the list for the past two years, and jams and preserves for 1878, the exports of those articles having exceeded the imports; a decided decrease, moreover, since 1875 is perceptible in the net imports of oats, pearl barley, malt, beans and peas, fruit, nuts and almonds, chicory, pickles, and grass seeds.
[^9]
## Net Imports* of certain Articles of Agricultural Produce, 1875 to 1878.

| Articles. |  |  |  | Balance of Imports over Exports in- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1875. | 1876. | 1877. | 1878. |
| Wheat |  |  |  | £ | £ | £ | £ |
|  | $\cdots \quad .$. | ... | $\ldots$ | 65,913 | 87,247 |  |  |
| Oats Oatmeal | ... ... |  |  | 170,957 | 112,430 | 95,071 | 80,140 |
|  | ... ... |  | ... | 511 | 261 |  |  |
| Barley | ... ... | ... | ... | 24,569 | 35,318 | 25,481 | 48,328 |
| Pearl barleMalt | y | ... | ... | 4,623 | 2,825 | 1,368 | 1,584 |
|  | ... ... | ... | ... | 93,009 | 68,401 | 76,867 | 37,162 |
| Maize | ... ... |  | ... | 114,609 | 117,951 | 123,357 | 164,578 |
| Maizena | , |  | ... | 1,624 | 4,988 | 7,365 | 2,359 |
| Beans, peas, and split peas |  |  |  | 5,528 | 2,266 | 2,456 | 2,057 |
| Fruit-green, bottled, dried, currants and raisins |  |  |  | 104,916 | 116,202 | 153,414 | 88,171 |
| Jams, jellies, and preservesNuts, almonds, walnuts |  | ... | ... | 4,799 | 6,450 | 350 |  |
|  |  | ... | ... | 6,255 | 7,774 | 6,064 | 4,565 |
| Hops | ... | ... | ... | 42,960 | 64,600 | 43,782 | 41,461 |
| Chicory | ... | ... | ... | 2,413 | 1,798 | 3,300 | 1,906 |
|  | ... ... | ... | ... | 9,160 | 12,892 | 4,284 | 1,843 |
| Tobacco, cigars, and snuff |  | ... | ... | 36,485 | 78,192 | 148,688 | 45,372 |
| Vegetables (preserved) |  | ... | ... | 930 | 1,397 |  | 1,409 |
| Canary seed |  | ... | ... | 2,117 | 4,970 | 1,857 | 1,228 |
| Grass and clover seed |  | ... | ... | 17,786 | 10,985 | 19,618 | 12,616 |
| Total |  | ... | ... | 709,164 | 736,947 | 713,322 | 534,779 |

537. In addition to the articles named in the above table, eggs, of Net imports which it might reasonably be supposed that Victoria would produce of eggs. sufficient for her own consumption, were imported in 1875 to the value of $£ 12,471$, but none were exported. The value of the imports of eggs in 1876 exceeded that of the exports by $£ 16,093$, in 1877 by $£ 13,550$, and in 1878 by $£ 11,597$.
538. Of every thousand acres cultivated during the past season, Proportion of 430 acres were placed under wheat; 84 under oats; 14 under each crop. barley; 23 under potatoes; 107 under hay; 249 under green forage; and 93 under other kinds of crops. The tendency of late years has been to crop a larger extent of land, relatively to the whole area under tillage, with wheat, and a smaller extent with the remaining crops. The following table shows the proportion that the land under different crops has borne to the total area under tillage during each of the last six years.
[^10]Proportion of Land under each Crop to Total under Cultifation, 1874 to 1879.

| Land under- |  | Proportion to Total Land under Tillage. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1873-4. | 1874-5. | 1875-6. | 1876-7. | 1877-8. | 1878-9. |
|  |  | per cent. | per cent. | per cent. | per cent. | per cent. | per cent. |
| Wheat | $\cdots$ | $36 \cdot 27$ | $32 \cdot 90$ | 28.52 | $32 \cdot 61$ | 39•74 | $42 \cdot 98$ |
| Oats | ... | 11.50 | $11 \cdot 36$ | 11.01 | $9 \cdot 36$ | $7 \cdot 41$ | $8 \cdot 35$ |
| Barley | ... | $2 \cdot 63$ | $2 \cdot 92$ | $2 \cdot 80$ | $2 \cdot 03$ | $1 \cdot 35$ | $1 \cdot 42$ |
| Potatoes | ... | $3 \cdot 97$ | $3 \cdot 48$ | $3 \cdot 27$ | $3 \cdot 29$ | $2 \cdot 61$ | $2 \cdot 27$ |
| Hay ... | ... | $11 \cdot 99$ | $11 \cdot 76$ | $13 \cdot 78$ | $11 \cdot 97$ | $12 \cdot 46$ | 10.\%4 |
| Green forage | ... | 22.08 | $25 \cdot 14$ | $27 \cdot 37$ | $29 \cdot 45$ | $27 \cdot 48$ | $24 \cdot 94$ |
| Other tillage | ... | 11.56 | 12.44 | $13 \cdot 25$ | 11-29 | $8 \cdot 95$ | $9 \cdot 30$ |
| Total... | ... | $100 \cdot 00$ | $100 \cdot 00$ | $100 \cdot 00$ | $100 \cdot 00$ | $100 \cdot 00$ | $100 \cdot 00$ |

Minor crops. 539 . In addition to the principal crops of which mention has been made, various descriptions of minor crops are also raised. It is not, however, presumed that the whole of such crops, or the full measure to which they are grown, is recorded by the collectors. It is certain that they are often raised in gardens, in which case the different kinds would not be distinguished in the returns. It is also probable that they may be sometimes grown upon allotments of a smaller extent than one acre, which the collectors are not called upon to visit. The following list must therefore be looked upon as indicating the nature of certain minor crops grown in Victoria rather than the extent to which those crops have been cultivated during the last five years. The quantities returned fluctuate from year to year, but the acreage under onions, pumpkins and melons, raspberries, and rye and bere, was greater in the last than in any other year shown. Arrowroot appears in the list for the first time since 1869, when 2 acres were returned :-

Minor Crops,* 1875 то 1879.

| Nature of Crop. |  | 1874-5. | 1875-6. | 1876-7. | 1877-8. | 1878-9. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arrowroot | \{acres | ... | ... | $\ldots$ | ... | 4 |
| Beet, carrots, par- | cwt. |  |  |  |  | 67 |
|  | ) acres | 721 | 807 | 571 | 470 | 402 |
| snips, \& cabbage | tons | 3,887 | 4,268 | 3,430 | 2,272 | 1,272 |
|  | (acres ... | 56 | 96 | 8 | 7 | 6 |
| Broom millet ... | fibre, cwt. ... | 264 | 338 | 8 | ... | ... |
|  | (seed, bush. ... | 1,000 | 2,095 | ... |  | ... |
| Buckwheat | $\{$ acres ... | 5 | 2 | ... | 2 | ... |
|  | bushels | 20 | 40 | $\cdots$ | 11 | ... |

Minor Crops,* 1875 to 1879-continued.

| Nature of Crop. |  | 1874-5. | 1875-6. | 1876-7. | 1877-8. | 1878-9. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Canary | (acres | ... | 50 | 30 | 82 |  |
|  | , bushels | ... | 300 | 183 | 825 | 50 |
| Chicory | facres | 109 | 174 | 225 | 256 | 55 |
|  | tons | 531 | 652 | 980 | 1,333 | 53 |
| " for seed... $\{$ | , | ... |  | ... | ... |  |
|  | \{lbs. | ... | 168 | ... |  |  |
| Clover for seed | facres | ... | 45 | ... | ... | ... |
|  | bush | ... | 614 | 1 | ... | ... |
| Cucumbers ... | $\left\{\begin{array}{l}\text { acres } \\ \text { tons }\end{array}\right.$ | ... | ... | 12 | ... | $\ldots$ |
| Flax | [acres | 7 | 17 | 3 | 33 |  |
|  | fibre, cwt. ... | 48 | 93 | 21 | 40 |  |
|  | linseed, bush. | 63 | 80 | 52 | 125 |  |
| Garden seedsCarrot |  |  |  |  |  |  |
|  | $\left\{\begin{array}{l}\text { acres } \\ \text { lbs. }\end{array}\right.$ | 560 | $\cdots$ | $\ldots$ | $\cdots$ | ... |
| Mixed ... | acres | 560 | ... | 50 | 16 |  |
| Radish | f acres | $\ldots$ | $\ldots$ | 1 | ... |  |
| Radish $\quad \cdots$, | flbs. |  |  | 560 |  | 672 |
| Grass seeds ... | Sacres | 3,082 | 2,189 | 1,993\% | 1,846 | 2,824 |
|  | \{bushels | 35,998 | 33,580 | 29,229 | 28,840 | 34,432 |
| Green peas ... | ) acres | ... | ... | 11 | ... | 37 |
| Green peas $\quad \cdots$ | tons | $\cdots$ | 715 | 18 | -77 | 50 |
| Hops ... ... | facres | 99,624 | 113,344 | 129,136 | 218,848 | 130,816 |
| Kohl-rabi ... | facres | ... | 1 | ... | ... | 130,816 |
|  | ewrt. | ... | 300 | ... |  |  |
| Lacerne for seed | facres | ... | 6 | ... | ... |  |
|  | bushels |  | 2 |  |  | 16 |
| Maize ... ... | Sacres | 1,523 | 2,346 | 1,609 | 1,215 | 1,939 |
|  | \{bushels | 24,263 | 37,177 | 25,909 | 22,050 | 40,754 |
| Mangel-wurzel ... | a acres | 1,281 | 1,223 | 1,285 | 1,320 | 888 |
|  | tons | 17,899 | 16,795 | 15,386 | 15,465 | 8,275 |
| Medicinal herbs ... | acres | ... | ... |  | ... | ... |
| Medicinal herbs ... | tons | $\cdots$ | 23 | $11+$ |  |  |
| Mulberry trees ... | $\left\{\begin{array}{l}\text { acres } \\ \text { number }\end{array}\right.$ | 6,500 | - 230 | 11,010 | 14,310 | , 180 |
| Mustard ... | facres | -31 | 30,65 40 | 11, 74 | -58 | 39 |
|  | \{ cwt. | 100 | 166 | 185 | 167 | 12 |
| Olives | acres |  | 10 | 10 | 10 | 20 |
| Onions ... | facres | 347 | 552 | 720 | 816 | 1,069 |
|  | tons | 2,794 | 4,780 | 3,579 | 3,055 | 3,600 |
|  | ¢acres | 10 | 4 | 4 |  |  |
| Opium poppies ... $\{$ | lbs. of opium | 168 | 100 | 60 | ... |  |
|  | heads | ... 4 | $\cdots$ |  | ... | 60,00 |
| Osiers | acres | 4 |  |  |  |  |
| Peas and beans ... | (acres | 16,170 | 18,854 | 21,235 | 17,286 | 15,153 |
|  | ) bushels | 317,382 | 450,948 | 373,857 | 241,007 | 248,436 |
| Pumpkins, melons, | facres | 46 | 55 | 19 | 46 | 205 |
| \&c. | tons | 250 | 67 | 77 | 159 | 1,190 |
| Rape for seed | facres | 7 | 34 | 10 | ... | 2 |
|  | bushels | 30 | $\cdots$ | 20 | -. 17 | 25 |
| Raspberries ... | acres | … | 3 60 | 10 | 17 224 | 45 |
|  | Cwt. |  | 60 | 51 | 224 | 476 |

[^11]Minor Crops,* 1875 то 1879 -continued.

540. Although the acreage under vines in 1878-9 was slightly greater than in the previous year, the wine produced was less by over 47,000 gallons. $\ddagger$ The great falling-off of late years, not only in the acreage under vines, but also in the quantity of wine produced, is very noticeable; thus in 1875-6, when there were 5,000 acres under vines, the wine produced amounted to 755,000 gallons, whilst in the three succeeding years, with areas varying from 4,400 to 4,800 acres, the wine produced annually amounted to only between 400,000 and 500,000 gallons. This result is due mainly to the effects of the oidium, phylloxera, and other diseases to which the vine is subject, but there is also no doubt that, in consequence of the importation and subsequent multiplication of frugivorous birds, especially sparrows, more grapes are now destroyed by birds than there were formerly. It is right, however, to point out that this part of the statistics is not quite so reliable as the other portions, since, as grapes come to maturity later than the other crops of which returns are made, only the acreage under vines can be returned for the year to which the remainder of the statistics relate, and the grape crop is necessarily that of the previous

[^12]season. This partial dealing with the returns of two years may sometimes cause confusion in the minds of the vine-growers, who may also not always remember the exact particulars of their previous year's crop.
541. Twenty acres under olives and 18 acres under mulberry trees were mubberry also returned in the year under review. The mulberry trees numbered 12,460 , and are grown for the purpose of feeding and rearing silk\&c. worms, this being an industry which, so far as it has gone, has been attended with great success in Victoria. No particulars respecting the olive crop are given. Mulberry and olive trees are frequently grown in gardens; and there is no doubt that both are much more extensively cultivated than the agricultural statistics indicate. This is also the case with raspberries and strawberries, as well as the vegetable crops. Osiers, for basket-making, are often grown in swamps and on the banks of streams. They are usually planted in small patches, which do not come under the notice of the collectors of statistics. This is probably the reason that whereas 5 acres were returned in 1876-7 and 3 acres the year before, no returns of osiers were made in the last two years.
542. The following table shows the land under gardens and orchards Gardens and in 1878 and 1879. No return is made of the nature of the crops grown or the quantity of produce raised. There was a decrease during the year in the area under gardens, but an increase in that under orchards, resulting in a net increase of 830 acres :-

Land under Gardens and Orchards, 1878 and 1879.

| Year ended 31st March. |  |  | Gardens. | Orchards. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | acres. | acres. |
| 1878 | $\ldots$ | $\ldots$ | $\ldots$ | 12,396 | 7,174 |
| 1879 | $\ldots$ | $\ldots$ | $\cdots$ | 12,131 | 8,269 |
|  |  | acres. |  |  |  |
| Increase | $\ldots$ | $\ldots$ | $\ldots$ | 19,570 |  |
| Decrease | $\ldots$ | $\cdots$ | 265 | 1,095 |  |

543. Land in fallow is included in the area under tillage. The Land in $^{\text {and }}$ number of acres in this condition in 1879 was 97,669 , or 21,994 more ${ }^{\text {fallow. }}$ than in the previous year.
544. The following table shows the number hof holdings of various classificasizes, and the extent of occupied and cultivated land embraced therein, according to the returns of the present year. It must be borne in mind that all the land alienated from the Crown is not included, but only that embraced in holdings above a certain minimum size, and showing sufficient evidence of occupation for agricultural or pastoral purposes to cause it to come under the notice of the collectors of agricultural statistics.*
[^13]Classification of Holdings as to Size, 1878-9. over 320 acres.

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

545. Under the present Land Act the maximum extent allowed to be selected by one individual is 320 acres. It appears, therefore, that the policy of the State of late years has been to discourage the enlargement of estates beyond this limit. It will be interesting to discover what proportion of the total number of holdings, the total quantity of occupied land, and the total quantity of cultivated land, is on blocks which do and do not exceed it. This may be done by analysing the above table, whereby it will be found that-
(a.) Out of every 100 holders, 14 , on the average, occupied lots exceeding, and 86 not exceeding, 320 acres in extent.
(b.) Out of every 100 acres in occupation, 64, on the average, formed portion of lots exceeding, and 36 of lots not exceeding, 320 acres in extent.
(c.) Out of every 100 acres cultivated, 41 , on the average, were on lots exceeding, and 59 on lots not exceeding, 320 acres in extent.

[^14](d.) Whilst holders of upwards of 320 acres cultivated, on the average, only $6 \frac{1}{2}$ per cent. of their holdings, holders of 320 acres and under cultivated, on the average, 16 per cent. of theirs.
546. It may further be ascertained from the same table that 47 per cent. of the holdings, 32 per cent. of the occupied land, and

Holdings of from 100 to 320 acres. 49 per cent. of the cultivated land, are on lots from 100 to 320 acres ; also that, whilst holders of less than 100 acres cultivated, on the average, very nearly 25 per cent. of their holdings, holders of from 100 to 320 acres cultivated, on the average, only 15 per cent. of theirs. It has been already stated that holders of upwards of 320 acres cultivated no more, on the average, than $6 \frac{1}{2}$ per cent. of their holdings.*
547. The following is the average size of holdings in the year under Average review, and at the beginning of the two previous quinquennial periods. $\begin{aligned} & \text { size of } \\ & \text { holdings. }\end{aligned}$ A steady increase will be observed :-

Average Size of Holdings. $\dagger$

| $1868-9$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 304 acres |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1873-4$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 314 |
| $1878-9$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 338 " |

548. The average area in occupation to each person in the colony area occuhas been steadily increasing since the first period, as will be seen by pead of the following figures :-

Average Area in Occupation $\dagger$ to each Person in the Colony.

| $1868-9$ | $\ldots$ | $\ldots$ | .. | .. | $12 \cdot 9$ acres |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1873-4$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $14 \cdot 5 \quad \%$ |
| $1878-9$ | .. | $\ldots$ | .. | .. | $18 \cdot 0$ |

549. An increase at each successive period will be noticed in the Area caltiaverage extent of land placed under cultivation by each holder :-

| Average Area Cultivated by each Holder. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1868-9 | ... | ... |  | ... | 24.4 | cres |
| 1873-4 | ... | ... |  | ... | $26 \cdot 4$ | " |
| 1878-9 | ... | ... | . ${ }^{\text {P }}$ | ... | 34.2 |  |

550. The area in cultivation was about one acre per head of the Area cultipopulation at the first period, but nearly two acres per head at the third $\begin{gathered}\text { vated per } \\ \text { head of } \\ \text { poplation }\end{gathered}$ period. The exact amounts were as follow :-

Average Area Cultivated to each Person in the Colony.

| $1868-9$ | $\ldots$ | $\ldots$ | .. | .. | 1.03 acres |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1873-4$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $1 \cdot 22$ |
| $1878-9$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 1.82 |

[^15]Occupied land cultivated.

Leases and rental of farms.

Prices of agricnltural produce.
501. It will be noticed that a much larger proportion of the occupied land was in cultivation at the last than at either of the other periods :-

| Proportion of | Occupied* | Land Ccltivated. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1868-9$ | $\ldots$ | $\ldots$ | $\ldots$ | 8.02 per cent. |  |
| $1873-4$ | $\ldots$ | $\ldots$ | $\ldots$ | 840 |  |
| $1878-9$ | $\ldots$ | $\ldots$ | $\ldots$ | 10.12 | $\%$ |

552. The average duration of leases of farms from private persons was returned by the collectors of statistics as averaging from 3 to 7 years; the extreme figures being 1 and 14 years. The average rental of agricultural land per acre was stated to be from 6 s .6 d . to 15 s. ; the extreme figures being 3 s . and 30 s . The average rental of pastoral land was said to be from 2 s .6 d . to 7 s .; the extreme figures being 1 s .6 d . and 10s.
553. Each collector furnishes a statement of the price of the principal articles of agricultural produce in his district at the time he makes his rounds. The following is an arerage deduced from the returns of all the districts during each of the last eleven years :-

Prices of Agricultiral Prodice, $\dagger 1869$ to 1879.


Years of highest and lowest prices.

Yalue of agricultural produce.
554. It will be observed that the price of wheat was highest in 1877 and lowest in 1879 ; that of oats and barley was highest in 1874 and lowest in 1872; and that of potatoes and hay was highest in 1869 and lowest in 1872. It will also be noticed that the price of every item given, except potatoes, was comparatively low in the year under review.
555. Subjoined is an estimate of the value of the crops raised during the year ended 31st March 1879. It will be seen the total amount was not far short of five millions sterling.

[^16]Value of Agricultural Produce, 1878-9.

| Name of Crop. | Gross Produce and Price. |  |  |  | Estimated Value. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | £ |  |  |
| Wheat | 6,060,737 bushels |  | 04 |  | 1,262,653 |  |  |
| Oats | 2,366,026 " | @ | 03 | 6 | 414,054 |  | 0 |
| Barley | 417,157 " | @ | 04 |  | 85,169 |  | 1 |
| Other cereals | 310,006 " | @ | 04 |  | 69,751 |  | 0 |
| Potatoes ... | 98,958 tons | @ | 412 |  | 456,856 | 2 |  |
| Other green crops | 14,496 " | @ | 50 | 0 | 72,480 | 0 |  |
| Hay ... | 209,028 | @ | 315 | 0 | 783,855 | 0 |  |
| Green forage | 401,427 acres | @ | 30 | 0 | 1,204,281 | 0 | 0 |
| Tobacco ... ... | 15,662 cwt. | @ | 216 | 0 | 43,853 | 12 | 0 |
| Grapes, not made into wine ... | 10,818 | @ | 10 | 0 | 10,818 | 0 | 0 |
| Wine | 410,333 gallons |  | 0.4 |  | 82,066 | 12 | 0 |
| Brandy ... | 1,561 " | @ | 010 | 0 | 780 | 10 | 0 |
| Other crops ... .. | 3,625 acres |  | 50 |  | 18,125 |  | 0 |
| Garden and orchard produce | 20,400 " |  |  |  | 408,000 | 0 | 0 |
|  | Total $\qquad$ |  |  |  | 4,912,744 |  |  |

556. The standard weight of crops in Victoria is reckoned to be 60 lbs . Weight of to the bushel for wheat, 56 lbs . for maize, 40 lbs . for oats, and 50 lbs . crops. for barley. The actual weight, however, differs in different districts. Thus, wheat, during the past year, ranged from 54 lbs. to $64 \mathrm{lbs} . ;$ oats, from 36 lbs. to 45 lbs. ; barley, from 45 lbs. to 54 lbs. ; and maize, from 50 lbs. to 62 lbs. The average weight per bushel of thesse crops in all the districts during the past two years was as follows :-

Specific Weight of Crops, 1878 and 1879.

| Average Weight per Bushel of- |  |  |  | 1877-8. | 1878-9. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wheat |  |  |  | $\begin{array}{r} \text { lbs. } \\ 60 \end{array}$ | lbs. $60$ |
| Oats | $\ldots$ | $\ldots$ | $\ldots$ | 40 | 40 |
| Barley | - | . | .. | 49 | 50 |
| Maize | ... | ... | .. | 55 | 56 |

557. A decrease took place in the number of males employed on Hands emagricultural and pastoral holdings in 1879 as compared with the number ployed. returned in the previous year, but this was more than counterbalanced by the increase in the number of females. The following are the figures for the past two years :-

Hands employed on Farms and Stations,* 1878 and 1879.

| Year ended 31st March. |  |  |  | Males. | Females. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18781879 | ... | ... | ... | 72,400 | 30,464 | 102,864 |
|  | ... | ... | ... | 71,954 | 31,566 | 103,520 |
|  | Incr |  | ... |  | 1,102 | 656 |
|  | Dec | e.. | ... | 446 | ... | ... |

[^17]558. A return of the average rates of labor on farms in the last two years is given below. It will be observed that the rates were less in the year under review under all the heads except two, under which they were identical in both years. Rations are allowed in all cases in addition to the wages quoted:-

Rates of Labor on Farms,* 1878 and 1879.

| Description of Labor. |  |  | 1877-8. | 1878-9. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | s. d. |  |  |
| Ploughmen, per week | ... | ... | 219 |  |  |
| Farm laborers, " | ... | ... | 1711 |  |  |
| Married couples, \# | ... | ... | 26 |  |  |
| Females, " | ... | ... | 109 | 10 | 3 |
| Mowers, " | ... | ... | 290 |  | 6 |
| " per acre ... | $\ldots$ | ... |  |  | 5 |
| Reapers, per week ... | ... | ... | 314 |  | 4 |
| ", per acre ... | ... | $\cdots$ | 116 |  | 4 |
| Threshers, per bushel ... | ... | ... |  | 0 | 6 |

559. The average rates returned as paid for pastoral labor will be found in the next table. These are in addition to rations, which are in every case supplied. It will be observed that according to the figures there was a decrease in 1878-9 as compared with the previous year in the rates for several descriptions of male labor, and in the wages paid to females:-

Rates of Labor on Stations, $\dagger 1878$ and 1879.

| Description of Labor. |  |  | 1877-8. | 1878-9. |
| :---: | :---: | :---: | :---: | :---: |
| Stockmen, per annum ... | . ${ }^{\text {a }}$ | . $\cdot$ | $\begin{array}{ccc} £ & s . & d . \\ 47 & 6 & 6 \end{array}$ | $\begin{array}{ccc} £ & s . & d . \\ 47 & 5 & 0 \end{array}$ |
| Boundary riders, " | ... | ... | 43126 | $\begin{array}{llll}40 & 9 & 0\end{array}$ |
| Shepherds, . " | ... | . $\cdot$ | $\begin{array}{llll}36 & 13 & 6\end{array}$ | 3410 |
| Hutkeepers, „ | -•• | ... | $2714 \cdot 0$ | $28 \quad 30$ |
| Married couples, „ | -•• | -•• | 6100 | 6120 |
| Females, ", | - | -•• | $\begin{array}{ll}29 & 7\end{array}$ | 27160 |
| Station laborers, per week | -• | ... | 0176 | 0178 |
| Sheepwashers, ", | $\cdots$ | ... | 110 | 112 |
| Shearers, per 100 sheep shorn | ... | -•• | 0136 | 0141 |

[^18]560. The live stock on farms and squatting stations were returned dive stock. as follow for the last two years. An increase will be observed in the number of horses and milch cows, but a falling-off in the number of sheep and pigs, and in the number of cattle used for other than dairying purposes. The live stock both on farms and stations is now returned by the collectors of agricultural statistics, who are instructed to supplement the information they obtain at the holdings they visit with estimates of the stock running on commons, of that kept by persons having allotments of less than an acre in extent, of that stalled and stabled in towns and villages, and of that belonging to road carters traversing their districts. For some of the larger towns the collectors have been unable to furnish estimates, and for these the census figures have been taken. Every endeavor is made to give as true a statement as possible of the numbers of all the stock in the colony; but it is necessary to point out that portion of the information is derived from estimates which can only be verified at a general census :-

Live Stock on Farms and on Stations, 1878 and 1879.

561. The returns of horses and cattle generally show increased Live stock in numbers from year to year, and those for 1879 were greater than those $\begin{gathered}1879 \text { and } \\ \text { previous }\end{gathered}$ for any previous year ; but this has not been the case of late years as regards sheep; and the number of pigs fluctuates considerably. The largest number of sheep ever returned was in 1876 ; since then, however, there has been a falling-off, and the number in the year under review was smaller than in any year since 1867.
562. The following table contains a statement of the number of horses, cattle, sheep, and pigs in the United Kingdom and some of the principal Foreign countries. The information has been derived entirely from official documents.

Life Stock in the United Kingdom and Foreign Countries (000's omitted).

| Country. | Year. | Number of- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Horses. | Cattle. | Sheep. | Pigs. |
| Great Britain* | 1878 | 1,422 | 5,777 | 28,477 | 2,499 |
| Ireland ... ... | 1878 | 505 | 3,984 | 4,094 | 1,269 |
| Total United Kingdom... | ... | 1,927 $\dagger$ | 9,761 | 32,571 | 3,768 |
| Austria and Hungary ... | 1869 | 3,543 | 12,628 | 20,103 | 6,995 |
| Belgium | 1866 | 283 | 1,242 | 586 | 632 |
| Denmark | 1876 | 352 | 1,348 | 1,719 | 504 |
| France | 1875 | 2,755 | 11,314 | 23,674 | 5,676 |
| Holland | 1875 | 260 | 1,466 | 941 | 339 |
| Italy | 1874 | $657 \ddagger$ | 3,489 | 6,977 | 1,575 |
| Norway | 1875 | 152 | 1,016 | 1,687 | 101 |
| Russia | 1870 | 16,160 | 22,770 | 48,132 | 9,800 |
| Sweden | 1876 | 461 | 2,189 | 1,588 | 432 |
| United States . | 1876 | 9,735 | 27,871 | 35,935 | 25,727 |

Live stock slaughtered.
563. The live stock slaughtered in Victoria during 1878, and the purposes to which the carcasses were appropriated, were returned as follow by the local bodies. It is probable that the returns do not in every case include the animals slaughtered by private persons and on farms and stations, and, therefore, that more were really slaughtered than the figures show. A falling-off took place in the number of sheep slaughtered, but an increase in the number of cattle and pigs, in 1878 as compared with the numbers returned in the previous year. The decrease appears principally in the numbers slaughtered for preserving and salting, and for boiling down purposes. It will be observed by reference to a return of the exports of Victorian produce for a series of years given in another part of this work§ that the export trade of Victorian meats and tallow has been declining for several years past:-

Live Stock Slacghtered, 1878.

| Description of Live Stock. |  |  | Numbers Slaughtered for- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | The Butcher | Preserving | Boiling Down | Total Number |
| Sheep and lambs Catile and calves |  |  | 1,722,034 | 113,772 | 37,938 | 1,873,744 |
|  |  | 184,047 | 983 | , | 185,030 |
| Pigs | ... |  | 67,115 | 31,967 | ... | 99,082 |
|  | ... |  | $\cdots$ | 1,973,196 | 146,722 | 37,93S | 2,157,856 |

Value of pastoral produce.
564. The following is an estimate of the gross value of pastoral produce raised on holdings of all descriptions in 1878-9.

[^19]
## Gross Value of Pastoral Produce, 1878-9.

| Nature of Produce. | Value. |
| :---: | :---: |
| Milk, butter, and cheese, from average number of milch cows kept viz., 290,407, @ $£ 8$ 10s. | $\underset{2,468,46}{\mathcal{E}}$ |
| viz., 290,407, @ $£ 8$ 10s. <br> Estimated net numbers of stock slaughtered in 1878 :- |  |
| Cattle, 174,429, @ £8 ... | 1,395,43 |
| Sheep, 1,204,306, @ 10s. | 602,15 |
| Pigs, 93,188, @, £2 10s. ... ... | 232,970 |
| Estimated value of produce of horse stock, 10,505, @ £8 | 84,040 |
| Excess of exports over imports of wool, Customs value ... ... | 3,447,451 |
| Estimated value of wool used in the colony for manufacturing pur- | 129,759 |
| Total... ... ... ... | ,360, |

Note.-The gross numbers of live stock slaughtered in the year may be estimated as follow :- Cattle 190,000 , sheep $2,000,000$, pigs 70,000 . The "net numbers" slaughtered are made up by adding to these figures those showing the increase of stock appearing in the returns of 1878-9 as compared with those of 1877-8, viz., cattle 15,267; also those showing the live stock exported in 1878, viz., cattle 6,735, sheep 454,719 , pigs 82 , and deducting from the sum of these numbers the figures slowing the decrease of stock appearing in the returns of 1878-9 as compared with those of 1877-8, viz., sheep 739,591; also the figures showing the stock imported in 1878, viz., cattle 37,573 , sheep 510,822 , pigs 876 . The produce of horse stock has been arbitrarily estimated at 5 per cent. upon the total number of horses in the colony. The quantity of wool manufactured in Victoria has been ascertained from the various woollen mills. No estimate has beeu made of the value of meat, tallow, lard, hides, skins, horns, hoofs, bones, \&c., as this is supposed to be included in the value of stock slaughtered.
565. The returns show a large increase in the year under review, yachinery as compared with the previous one, in the use of steam machinery on farms and statious; also an increase in the value of improvements made, but a slight diminution in the value of machines and implements. The and improvements on farms and stations. improvements to which reference is made are buildings of all descriptions, fencing, dips, wells, dams, \&c., but the cost of clearing or cropping land is not given. The following are the figures :-
Steam Engines, and Value of Implements and Machines and of Improvements, on Farms and Stations, 1878 and 1879.

| Year ended 31st March. | Steam Engines. <br> Number. |  | Value of Imple- <br> Hents and Ma- <br> chines. | Value of <br> Improvements. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1878 | $\ldots$ | $\ldots$ | $\ldots$ | 326 | 2,484 | $2,031,514$ |
| 1879 | $\ldots$ | $\ldots$ | $\ldots$ | 385 | 2,994 | $2,025,916$ |

566. The following figures, which have been obtained by means of Machine averages struck from the returns of the collectors in all the districts, show the rates paid for machine labor in the last two years :-

Machine Labor, 1878 and 1879.

| Average Rates Paid for- |  | 1877-8. | 1878-9. |
| :---: | :---: | :---: | :---: |
|  |  | £ s. $d$. | £ s. ${ }^{\text {d }}$. |
| Machine reaping, per acre ... | $\cdots$ | $\begin{array}{lllll}0 & 5 & 10\end{array}$ | $\begin{array}{llll}0 & 4 & 10\end{array}$ |
| \% mowing, $\quad$... ... | ... | $\begin{array}{llll}0 & 5 & 1\end{array}$ | 048 |
| \# threshing, per 100 bushels... | ... | 140 | 144 |

Flour mills. 567 . The flour mills employing steam-power were greater by 3 , but those employing water-power were less by 4 , in 1879 than in the prerious year. An increase took place in the quantity of grain operated upon and flour made, notwithstanding there was a falling-off in the horse-power and stones used and the number of hands employed. The figures show a decrease in the value of plant, lands, and buildings :-

Flour Mills, 1878 and 1879.

| Year ended 31st March. | $\begin{gathered} \text { Number } \\ \text { of } \\ \text { Mills. } \end{gathered}$ | Mills employing- |  | $\begin{gathered} \text { Amount } \\ \text { oi } \\ \text { Horse-power. } \end{gathered}$ | Number of Pairs of Stones. | Number of Hands employed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Steam-power. | Water-power. |  |  |  |
| 1878 | 150 | 141 | 9 | 2,871 | 487 | 721 |
| 1879 | 149 | 144 | 5 | 2,789 | 454 | 708 |
| Increase | $\cdots$ | 3 |  | . | ... | - |
| Decrease | 1 | ... | 4 | 82 | 33 | 13 |


| Year ended 31st March. |  |  | Bushels of Grain operated upon. |  | Tons of Flour made. | Approximate Total Value of- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wheat. | Other. |  | Machinery and Plant. | Lands.* | Buildings. |
|  |  |  |  | - |  | £ | £ | £ |
| 1878 | ... | $\ldots$ | 5,629,436 | 169,777 | 119,953 | 225,500 | 62,777 | 208,040 |
| 1879 | ... | ... | 5,665,791 | 267,603 | 124,815 | 207,630 | 55,680 | 176,760 |
| Inc |  |  | 36,355 | 97,826 | 4,862 | -•• |  |  |
| Dec | ase | ... | ... | ... | ... | 17,870 | 7,097 | 31,280 |

568. A decrease of 7 took place in the number of breweries and in most of the items relating thereto; but the quantity of beer made and the value of lands and buildings were greater in the year under notice than in the previous one. The following are the results for the two years :Breweries, 1878 and 1879.


[^20]569. The beer made in Victoria during 1877 amounted to nearly $15 \frac{1}{4}$ gallons or million gallons, or an average of $17 \frac{4}{5}$ gallons to each inhabitant. That head. made in 1878 amounted to over $15 \frac{1}{3}$ million gallons, or an average of $17 \frac{3}{5}$ gallons to each inhabitant.
570. A general falling-off occurred in the returns of brickyards and potteries in 1879 as compared with 1878 ; the number of establishments was less by 26 , and the bricks made were fewer by $11 \frac{1}{4}$ millions. The value of articles manufactured amounted to $£ 140,543$ in 1879 as against $£ 173,088$ in 1878. The following are the returns for the two years :-

Brickyards and Potteries, 1878 and 1879.

| Year ended 31st March | Number ofBrick-yards andPotteries. | Number of Machines in use. |  | Brickyards, \&c., employing- |  |  | Amount of Horsepower Engines. | Number of Hands employed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{\|c} \text { For } \\ \text { tempering } \\ \text { or crushing } \\ \text { Clay. } \end{array}$ | For making Pottery. | Steampower | Horse power. | Manual |  |  |
| 1878 ... | 224 | 173 | 99 | 18 | 101 | 105 | 277 | 1,104 |
| 1879 .. | 198 | 144 | 70 | 12 | 95 | 91 | 243 | 922 |
| Increase <br> Decrease | $26$ | - 29 | $29$ | $\cdots$ | ${ }^{\cdots} 6$ | $\cdots$ | $\cdots$ | $182$ |
| Year ended 31st March. |  | Number of Bricks made. | Approximate Total Value of- |  |  |  |  |  |
|  |  | Bricks made. | Pottery made. | Machinery and Plant. | Lands.* | Buildings. |  |  |
|  |  |  | 69,950,400 | $\underset{145,766}{\mathcal{E}}$ |  | $\begin{gathered} \underset{27,322}{ } \end{gathered}$ | $\underset{56,326}{\underset{f}{f}}$ | $\stackrel{\underset{62,521}{£}}{ }$ | $\underset{54,221}{\underset{54}{\prime}}$ |
| 1879 | - ... | 58,662,000 | 115,133 |  | 25,410 | 59,486 | 56,342 | 47,575 |
| Increase |  | ... | -•• |  | $1,912$ | 3,160 | -•• | $6,646$ |
| Decre | ase ... | 11,288,400 | 30,633 |  |  | .- | 6,179 |  |

571. An increase of 2 took place between 1878 and 1879 in the Tanneries number of tanneries and fellmongeries, but a falling-off in the number mongeries. of hides and skins operated on of over 800,000, and in the value of articles produced to the extent of $£ 50,728$. The value of machinery and plant also shows a falling-off of $£ 2,295$, but the value of lands and buildings was set down as being higher by $£ 10,943$ in the year under review than the previous one. The results of the two years are thus summarised.
[^21]Tanneries and Fellmongeries, 1878 and 1879.

572. One woollen mill more was returned in 1879 than in 1878, and a satisfactory increase appears in the various items. In 1879 the quantity of wool used was greater by $200,000 \mathrm{lbs}$. and the value of goods manufactured was greater by $£ 13,000$ than in the previous year. Felt appears in the returns for 1879 for the first time. The following are the figures for the two years :-

Woollen Mills, 1878 and 1879.


[^22]573. The manufactories and works, exclusive of those of which other mannmention has already been made-viz., flour mills, breweries, brickyards,
factories, Works, \&c. potteries, tanneries, fellmongeries, and woollen mills-increased but slightly in number, namely, from 1,763 in 1878 to 1,767 in the year under review. The amount of horse-power, however, increased by 300 ; the hands employed by nearly 900 ; and the value of machinery, plant, aud buildings by $£ 225,000$; but the value of lands shows a decrease of $£ 55,000$, notwithstanding the number on Crown lands, of which no value is given,* was 22 less in 1879 than in the previous year. Most of the establishments are of an extensive character, and about 40 per cent. of them, both in 1878 and 1879, used steam-power. The following is a comparison of the results of the two years :-

Mandfactories, Works, etc., 1878 and 1879.
(Exclusive of Flour Mills, Breweries, Brickyards, Potteries, Tanneries, Fellmongeries, and Woollen Mills.)

| Year ended. 31st March. | Number of Manufactories, Works, \&c. |  | Manufactories, \&c., employing - |  |  |  |  |  | Amount of Horse-power employed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Steam. | Water. | Gas. | Wind. | Horsepower. | Manual |  |
| $\begin{aligned} & 1878 \\ & 1879 \\ & \text { Increase } \\ & \text { Decrease } \end{aligned}$ | $\begin{aligned} & 1,763 \\ & 1,767 \end{aligned}$ |  | $\begin{aligned} & 693 \\ & 702 \end{aligned}$ | 8 | 32 | 1 | 72 | 957 | 8,636 |
|  |  |  | 5 | 24 | ... | 31 | 1,005 | 8,940 |  |
|  |  |  |  | ${ }^{\text {.. }} 9$ | $\cdots$ | $\because 8$ | $\because$ | $\because 41$ | 48 | 304 ... |
| Year ended 31st March. | Number of Hands employed. |  |  |  | Approximate Total Value of- |  |  |  |  |
|  |  | Males. |  | males. |  | chinery d Plant. |  | ds.* | Baildings. |
| $\begin{array}{r} 1878 \\ 1879 \end{array}$ | $\ldots$ | 22,275 |  | ,343 |  | $\stackrel{\underset{157,052}{\boldsymbol{E}}}{ }$ | 1,1 | £ | $\underset{1,795,133}{\boldsymbol{\varepsilon}}$ |
|  |  | 22,948 |  | ,455 |  | 55,618 | 1,09 | 0,379 | 1,922,147 |
| Increase Decrease |  | 673 |  | 212 |  | 98,566 |  |  | 127,014 |
|  |  | ... |  | ... |  | ... |  | 5,035 | ... |

Nors.-It was formerly customary, wrongly as I conceive, to include certain waterworks in the retums of manufactories. They are now excluded from all the manufactory tables. A general table of waterworks will be found following paragraph 377 post.
574. By summarising the returns of manufactories and works of all Manufacdescriptions, including not only such as are embraced in the foregoing table, but those excluded therefrom-viz., flour mills, breweries, potteries, tanneries, fellmongeries, and woollen mills-it is found that the total number of establishments was less by 27 in 1879 than in the previous year, but a slight increase appears in the other items. The number of establishments using steam increased by 11, and.the amount of horse-power by 366 , the hands employed by 590 , and the capital invested in lands, buildings, machinery, and plant by $£ 133,096$. The following are the figures relating to the two years.

[^23]Manufactories, Works, etc., 1878 and 1879.
(Inclading Flour Mills, Breweries, Brickyards, Potteries, Tanneries, Fellmongeries, and Woollen Mills, as well as other Manufactories, Works, \&c.)

| Year ended 31st March. | Total Number of Establish ments. | Number of Establishments using Steam | Horse-power of Engines.* | Number of Hands employed. | Approximate Value of Lands, Buildings, Machinery, and Plant. $\dagger$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1878 | 2,370 | 897 | 12,698 | 32,688 | $\underset{6,665,540}{\boldsymbol{\mathcal { L }}}$ |
| 1879 | 2,343 | 908 | 13,064 | 33,278 | 6,798,636 |
| Increase . |  | 11 | 366 | 590 | 133,096 |
| Decrease... | 27 | ... | ... |  |  |

Names of manufactories.
575. The manufacturing establishments of all kinds respecting which returns are obtained are named in the following table, and their numbers are given for the year under review, and for the first year of each of the two previous quinquenniads; also the number of hands employed, and the approximate value of plant, lands, and buildings, during the year under review. The establishments are for the most part of an extensive character, the only exception being in cases where the existence of industries of an unusual or interesting nature might seem to call for notice. No attempt is made to enumerate mere shops, although some manufacturing industry may be carried on thereat. Were this done, the "manufactories" in the colony might be multiplied to an almost indefinite extent. It is customary to note all establishments where machinery worked by steam, gas, water, wind, or horse power is used. $\ddagger$

\footnotetext{

* It is possible that the numbers in this column may inclade the power of a few water and wind machines used in manufacturing, in addition te the power of steam engines.
$\dagger$ In the case of establishments standing upon Crown lands no estimate of the value of the land is given. The number of such establishments was 266 in 1878, and 232 in 1879 ,
$\ddagger$ The collectors of statistics, being furnished with instructions as to the nature of the establishments they are expected to visit, do not, as a rule, return those which do not fulfil the conditions described in this paragraph. Each year, however, some of the returns sent in by them are rejected by the Government Statist as not being of sufficient importance to warrant their being placed in the list. The following are those which have been excluded on this ground during the last three years :-


Mandfactories, Works, etc., 1869, 1874, and 1879.

| Description of Manufactory, Work, \&c. | Number of Establishments. |  |  | 1878-9. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1868-9. | 1873-4. | 1878-9. |  |  |
| Books and Stationery. |  |  |  |  | £ |
| Account-book manufactories, manufacturing stationers | 8 | 12 | 6 | 545 | 61,117 |
| Printing establiskments ... .... ... | 18 | 28 | 55 | 1,778 | 269,877 |
| Musical Instruments. |  |  |  |  |  |
| Organ-building establishments ... ... | 2 | 2 | 1 |  |  |
| Pianoforte manufactories ... ... ... | 7 | 8 | 8 | 32 | 7,400 |
| Prints, Pictures, etc. <br> Picture-frame makers, carvers, and gilders ... | $\cdots$ | $\cdots$ | 11 | 66 | 25,160 |
| Carving, Figures, etc. <br> Indiarubber stamp manufactories | $\cdots$ | $\cdots$ | 3 | 8 | 2,870 |
| Modelling (architectural and figure), \&c.-works | ... | ... | 5 | 16 | 9,360 |
| Turnery works ... ... ... ... | ... | ... | 12 | 35 | 8,150 |
| Wood-carving and ornamental works | ... | ... | 3 | 8 | 1,115 |
| Wooden pipe manufactories . $\quad$... | 3 | 2 | ... | ... | ... |
| Designs, Medals, and Dies. <br> Diesinkers, engravers, medalists, trade-mark makers | $\cdots$ | $\ldots$ | 6 | 40 | 6,173 |
| Philosophical Instruments, etc. Philosophical instrument manufactories Spectacles manufactory | $\cdots$ | $\cdots$ | 6 | 15 | 3,579 |
| Spectacles manufactory ... ... ... | ... | ... | 1 | ... | ... |
| Surgical Instruments. <br> Surgical instrument, truss-manufactories ... | $\cdots$ | $\cdots$ | 6 | 24 | 3,968 |
| Arms, Ammunition, etc. <br> Blasting powder, dynamite, \&c.-manufactories |  | 2 | 5 | 57 | 10,450 |
| Fuse manufactories ... ... | 1 | 1 | 1 |  |  |
| Gunmakers ... ... ... | ... | .. | 8 | 29 | 8,175 |
| Machines, Tools, and Implements. Agricultural implement manufactories | 19 | 40 | 44 | 939 | 95,206 |
| Bellows manufactories ... ... ... |  | 2 | 2 | 13 | 1,270 |
| Cutlery, machine-tool-manufactories ... | 2 | 3 | 10 | 29 | 7,145 |
| Engine, machine-manufactories ... ... | 24 | 24 | 46 | 1,595 | 355,223 |
| Carriages and Harness. <br> Coach, waggon, \&c.-manufactories | 1 | 5 | 139* | 1,580 | 191,476 |
| Saddle, harness-manufactories ... ... | ... | ... | 40 | 379 | 54,885 |
| Saddlers' ironmongery and coach-spring manufactories | ... | ... | 5 | 23 | 3,430 |
| Whip manufactories ... ... ... | 1 | 3 | 4 | 29 | 2,475 |

[^24]
## Mantfactories, Works, etc.-continued.

Description of Manufactory, Work, \&c.

| SHITPs |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Ship, boat-builders <br> Ships' wheels, blocks, \&c.--manufactories |  |  |  |  |
| Floating-docks |  | ... |  |  |
| aring-docks | ... | ... | ... |  |
| atent slips |  |  |  |  |

Hodses, Buildings, etc.

| rks | ... ... | $\ldots$ |  |
| :---: | :---: | :---: | :---: |
| Cement works |  |  |  |
| Patent ceiling ventilator manufactory Roof-covering composition manufactory |  |  |  |
|  |  |  |  |
| Furniture. |  |  |  |
|  |  |  |  |
| Cabinet works, including billiard-table makers |  |  |  |
| Earth-closet man | ufactories |  |  |
| on safe manuf | actories |  |  |
| Looking-glass m | nufactories | ... |  |
|  | Chemicals. |  |  |
| emical wo |  |  |  |
| Dye works |  | $\ldots$ |  |

Ink, blacking, blue, washing-powder, \&c.manufactories
Match (vesta) manufactory
Paint, varnish-manufactories
Salt works

Textile Fabrics.
Woollen mills $\stackrel{\text { Textile Fa }}{\cdots}{ }^{\text {... }}$

| Boot manufactories |  |  |  | 16 | 21 | 71 | 2,615 | 104,145 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Clothing factories | ... | ... | $\ldots$ | 36 | 34 | 63 | 3,988 | 180,939 |
| Fur manufactories |  |  |  |  | 1 | 4 | 33 | 3,360 |
| Hat, cap-manufactories |  |  | ... | 9 | 10 | 19 | 275 | 29,410 |
| Oilskin, waterproof-clothing-manufactories |  |  |  | ... | 1 | 4 | 33 | 3,100 |
| Umbrella and parasol manufactories |  |  |  | $\cdots$ | $\cdots$ | 6 | 28 | 5,370 |
| Fibrous Materials. |  |  |  |  |  |  |  |  |
| Bag and sack manufactor |  |  | ... | 1 | $\ldots$ |  | .. |  |
| Jute factory ... |  |  | ... | ... | ... | 1 | ... | .. |
| Oilcloth-manufactories |  |  | ... |  | 2 |  |  |  |
| Rope, twine-works | ... |  | ... | 5 | 12 | 15 | 319 | 61,919 |

[^25]Mandfactories, Works, etc.-continued.


[^26]Manufactories, Works, etc.-continued.

| Description of Manufactory, Work, \&c. |  |  | Number of Establishments |  |  | 1878-9. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1868-9 | 1873-4. | 1878-9. |  |  |
| Vegetable Matters-co | inued. |  |  |  |  |  | £ |
| Cooperage works... ... | ... |  | 2 | 10 | 15 | 105 | 14,325 |
| Cork manufactories ... | .. | ... | $\ldots$ | $\ldots$ | 3 | 17 | 4,045 |
| Fancy-box manufactories ... | ... | ... | 1 | 4 | 3 | 36 | 3,025 |
| Hat-box manufactories ... | ... | ... | $\ldots$ | $\cdots$ | 2 | 8 | 1,700 |
| Ladders and steps joinery | ... |  | ⒈. | $\ldots$ | 1 |  |  |
| Moulding, framing, turning, and | w mills | ... | 117 | 161 | 145 | 2,538 | 312,599 |
| Packing-case manufactories | ... | ... | 2 | ... |  | i |  |
| Paper manufactories ... | ... |  | 1 | 1 | 2 | 177 | 56,106 |
| Paper-bag manufactories ... | ... |  | $\ldots$ | 4 | 5 | 139 | 16,585 |
| Tent, tarpaulin-manufactories | ... |  | $\ldots$ | $\cdots$ | 10 | 58 | 7,692 |
| Gasworks ... Coale. |  | $\cdots$ | 11 | 13 | 17 | 315 | 915,374 |
| Stone, Clay, Earthenware Brickyards and potteries ... | nd GL |  | 222 | 290 | 198 | 922 | 163,403 |
| Filter manufactories ... |  |  | 1 | ... | 2 | 6 | 1,060 |
| Glass manufactories, works | ... |  | 2 | 2 | 3 | 134 | 15,846 |
| Glass works ... | ... |  | 2 | 2 | 7 | 41 | 6,020 |
| Marble and monumental works | ... |  | ... | 12 | 26 | 254 | 32,212 |
| Stone-breaking works ... | ... |  | \} 2 | 5 | \{ 5 | 115 | 9,130 |
| Stone sawing, polishing-works | ... |  |  | 5 |  | 54 | 12,960 |
| Ice manufactories Water.* |  |  | 1 | 1 | 2 | 22 | 9,300 |
| Gold, Silver, and Precio Electro-plating and gilding work | Stone |  | ... | 2 | 5 | 19 | 3,905 |
| Goldsmiths, jewellers, and watchm facturing) | kers (m: |  | ... | ... | 27 | 346 | 44,665 |
| Lapidary ... ... |  |  | $\ldots$ | $\ldots$ | 1 | ... | ... |
| Nickel-plating works ... | ... |  | ... | ... | 1 | ... | ... |
| Metals other than Gold | S Sild |  |  |  |  |  |  |
| Antimony-smelting works ... | ... | ... | $\ldots$ | 3 | 2 | 35 | 10,350 |
| Bell foundry ... .. |  | ... |  |  | 1 | ... |  |
| Iron and tin works |  | ... | 8 | 16 | 70 | 834 | 139,810 |
| Iron, brass, and copper foundries | $\ldots$ | $\ldots$ | 59 | 62 | 91 | 1,752 | 289,453 |
| Lead works $\quad .$. | $\cdots$ | $\ldots$ | 2 | 1 | 2 | 20 | 18,950 |
| Tin-smelting works ... | ... |  |  | 2 | 1 | ... |  |
| Type foundries ... ... | ... |  | 1 | ... | 1 |  |  |
| Wire-working establishments |  | ... | ... | $\ldots$ | 9 | 53 | 8,980 |
| Total where only one return wa each of certain descriptions $\dagger$ | received |  | $\cdots$ | $\cdots$ | $\cdots$ | 436 | 244.665 |
| Total | ... | ... | 1,314 | 1,803 | 2,343 | 33,278 | 6,798,636 |

[^27]576. Summarised particulars respecting these manufactories are given for the same three periods in the following table. Greatly increased numbers at each successive period will be observed in all the columns, the augmentation shown being no doubt almost entirely due to the starting of fresh works and the extension of old ones. It is possible, however, that in consequence of the greater care exercised of late years by the collectors in returning every establishment, an appearance of increase may have sometimes resulted without any actual increase having occurred. The number of manufactories increased by 37 per cent. between the first and second periods, and by 30 per cent. between the second and third periods ; the hands employed increased by 47 per cent. and 36 per cent. respectively; and the value of lands, buildings, machinery, and plant increased respectively by 35 per cent. and 51 per cent. :-

Summary of Manufactories, Works,* etc., 1869, 1874, and 1879.

| Year <br> ended <br> 31st <br> March. | Total Number <br> of <br> Establishments. | Number of <br> Establishments <br> using Steam. | Horse-power <br> of <br> Engines. $\dagger$ | Number of <br> Hands <br> employed. | Approximate Value <br> Lands, Buildings, <br> Machinery, and Plant. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1869 | 1,314 | 554 | 8,062 | 16,612 | $3,329,605$ |
| 1874 | 1,803 | 771 | 11,036 | 24,411 | $4,498,209$ |
| 1879 | 2,343 | 908 | 13,064 | 33,278 | $6,798,636$ |
|  |  |  |  |  |  |

577. The following table contains a list of the works for the storage waterworks. and supply of water for domestic, mining, and irrigation purposes, situated in various parts of the colony; also a statement of the estimated capacity of each work, and its actual or estimated cost. Some of these works have been completed, and others are in course of construction. It was formerly the practice to include some of the waterworks with the manufactories, but it is now thought better to remove them from that portion of the statistics, and to embody them all in a special table. It will be observed that the storage capacity of these works is over twelve thousand million gallons, and their cost nearly three and a half millions sterling.
[^28]Waterworks in Victoria.


Waterworks in Viotoria-continued.

578. If the value of the lands, buildings, plant, and machinery used in Capital invested in manufactories and waterworks. connection with manufactories be added to the actual or estimated cost of the waterworks, their sum will represent an amount equal to orer ten millions sterling. The following are the figures :-

| Value of lands, buildings, machinery, \& |  |  | £ |
| :---: | :---: | :---: | :---: |
| tion with manufactories, 1879 | ... | ... | 6,798,636 |
| Actual or estimated cost of waterworks | ... | ... | 3,386,517 |
|  |  |  | 0,185,153 |

579. Though the number of stone quarries at work in 1879 was stone quarless by 8 than that in 1878, the quantity of stone raised was greater; a decrease, however, took place in the value of stone raised, and in the value of lands and plant. The following are the figures.
[^29]Stone Quarries, 1878 and 1879.


Gold raised, 1878.

Gold raised, 1877 and 1878.
580. The quantity of gold raised in Victoria during any given year may be estimated in several ways; the following are the results for 1878 of four different methods of making the calculation :-

Estimates of Gold Yield, 1878.

1. Exported gold entered as the produce of Victoria, added to

Victorian gold received at Melbourne Mint
Estimated Quantity.

| oz. | dwt. gr. |  |
| :---: | :---: | :---: |
| 768,853 | 14 | 0 |
| 775,272 | 0 | 0 |
| 758,040 | 15 | 19 |
| 772,302 | 15 | 20 |

581. The estimate in the second line is that which is adopted on the present occasion as probably the most reliable. It will be observed that it gives a somewhat higher result than that obtained by any of the other methods. This quantity, and its value at $f 4$ per oz., are compared in the following table with the quantity and assumed value of the gold estimated to have been raised in 1877 :-

Quantity and Valce of Gold raised in 1877 and 1878.

| Year. |  |  | Gold raised in Victoria. |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Estimated Quantity. | Estimated Value, at $\mathcal{L 4}$ per oz. |
| $\begin{aligned} & 1877 \\ & 1878 \end{aligned}$ | ... | $\begin{gathered} \ldots \\ \ldots \end{gathered}$ | $\begin{gathered} \text { oz. } \\ 809,653 \end{gathered}$ | $\frac{\underset{3,238,612}{\boldsymbol{E}}}{}$ |
|  |  |  | 775,272 | 3,101,088 |
| Decrease |  | ... | 34,381 | 137,524 |

[^30]582. The following figures give an estimate of the quantity of gold Gola raised, raised in 1870 and each subsequent year. It will be seen that since 1871 the yield of gold has been steadily decreasing :-

Estimated Quantity of Gold raised, 1870 to 1878.

| 1870 |  |  | oz. |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: |
| 1870 | $\ldots$ | $1,222,798$ | 1875 | $\ldots$ | $\ldots$ | $1,095,787$ |  |
| 1871 | $\ldots$ | $\ldots$ | $1,355,477$ | 1876 | $\ldots$ | $\ldots$ | 963,760 |
| 1872 | $\ldots$ | $\ldots$ | $1,282,521$ | 1877 | $\ldots$ | $\ldots$ | 809,653 |
| 1873 | $\ldots$ | $\ldots$ | $1,241,205$ | 1878 | $\ldots$ | $\ldots$ | $\mathbf{7 7 5 , 2 7 2}$ |

583. Carrying on to the end of 1878 the calculations given in previous cold raised, Year-Books, the following may be estimated as the total quantity and 1851 to 1878. value of the gold raised in Victoria from the period of its first discovery in 1851. These figures give an average per annum during the whole period of about $1,716,000 \mathrm{oz}$., which is more than twice the quantity raised in 1878 :-

Estimated Total Quantity and Valee of Gold raised in Victoria, 1851 то 1878.*

| Gold raised in Victoria. |  | Estimated Quantity. | Estimated Value, at £4 per oz. |
| :---: | :---: | :---: | :---: |
| Prior to 1878 During 1878 Total |  | oz. | $\pm$ |
|  | ... | 47,283,377 | 189,133,508 |
|  | ... | 775,272 | 3,101,088 |
|  | ... | 48,058,649 | 192,234,596 |

584. The estimated value of gold raised in proportion to the number value of gold of miners at work $\dagger$ was slightly greater in 1878 than in 1877, but much less than in any other year since 1870. The following figures, which have been taken from the reports of the Secretary for Mines, express this proportion for each of the last nine years :-

Value of Gold per Miner, $\ddagger 1870$ to 1878.

|  |  |  | $\mathcal{E}$ | $s$. | $d$. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1870 | $\ldots$ | $\ldots$ | 81 | 0 | 6.46 | 1875 | $\ldots$ |  | $\ldots$ | 104 | 4 |
|  | 4.02 |  |  |  |  |  |  |  |  |  |  |
| 1871 | $\ldots$ | $\ldots$ | 93 | 6 | 0.662 | 1876 | $\ldots$ | $\ldots$ | 89 | 19 | 6.84 |
| 1872 | $\ldots$ | $\ldots$ | 93 | 17 | 1.47 | 1877 | $\ldots$ | $\ldots$ | 82 | 6 | 1.69 |
| 1873 | $\ldots$ | $\ldots$ | 93 | 16 | 2.62 | 1878 | $\ldots$ | $\ldots$ | 82 | 12 | 11.38 |

585. The mining surveyors and registrars estimate that in 1878 $500,637 \mathrm{oz}$., or 65 per cent. of the gold exported and minted, was obtained from quartz reefs, and $268,232 \mathrm{oz}$., or 35 per cent., was obtained Gold derived
from alluvial and quartz workings. from alluvial deposits. In the previous year the same officers estimated that 64 per cent. of the gold was raised from quartz, and 36 per cent. from alluvial mines.

[^31] engines used in mining.
586. Of the steam engines employed in connection with gold mining about a fourth are used on alluvial, and three-fourths on quartz workings. The following is the number of engines in use and their horse-power in each of the last six years. It will be noticed that a slight fallingoff has taken place from year to year :-

Steam Engines used in Gold Mining, 1873 to 1878.

|  | Number. |  |  |  | Horse-power. |  |  | Number. |  |  |  | Horse-power, |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| 1873 | $\ldots$ | 1,151 | $\ldots$ | 25,100 | 1876 | $\ldots$ | 1,081 | $\ldots$ | 23,947 |  |  |  |  |
| 1874 | $\ldots$ | 1,141 | $\ldots$ | 24,866 | 1877 | $\ldots$ | 1,067 | $\ldots$ | 23,416 |  |  |  |  |
| 1875 | $\ldots$ | 1,101 | $\ldots$ | 24,224 | 1878 | $\ldots$ | 1,036 | $\ldots$ | 22,711 |  |  |  |  |

587. The number of mining machines of all descriptions fell from 4,540 in 1877 to 4,428 in 1878 ; and the value of such machines, as estimated by the Department of Mines, decreased from $£ 2,029,962$ in 1877 to $£ 1,903,494$ in 1878.
588. The number of quartz reefs proved to be auriferous was returned by the mining surveyors and registrars as 3,328 in 1877 and 3,402 in 1878 . It has been pointed out, however, that these cannot in every case be distinct reefs, as parts of the same reef in different localities are held to be independent veins, and named accordingly; and, moreover, as the lines of reef are further explored, it is found that what were supposed to be separate reefs are in reality not distinct.
589. The area of auriferous ground worked upon was stated to be approximately $1,185 \frac{1}{2}$ square miles in 1877 and 1,290 in 1878. The figures are derived from estimates, not from actual surveys, and they vary from year to year. As the shallow alluviums of the older goldfields are abandoned by the miners, they are often occupied by agriculturists and gardeners, and ground which one year is included in the area embraced in gold workings is properly excluded in another.
590. It is impossible to obtain an exact statement of the yield of auriferous quartz in any year, owing to the fact that many of the owners of machines for crushing quartz are unable to give, or are precluded from giving, information respecting their operations. The officers of the Mining Department, however, succeeded in obtaining particulars respecting the crushing of 965,574 tons in 1877 and 874,717 tons in 1878. The average yield per ton of these crushings was 9 dwt .9 .38 gr . in the former, and 9 dwt. 12.99 gr. in the latter year. From similar estimates, extending over a series of years, and embodying information respecting the crushing of more than $15,000,000$ tons of quartz, an average is furnished of 11 dwt. 1.08 gr . of gold to the ton of quartz crushed.
591. In 1878, for the first time, some of the shafts sunk in Victoria in search of auriferous quartz have attained depths exceeding 2,000 feet from the surface. Two at Stawell are 2,032 feet and 2,014 feet
respectively; the deepest shaft at Sandhurst appears to be 1,458 feet; and the deepest at Ballarat 1,114 feet. The yield of gold from 16,734 tons of quartz obtained at Stawell at depths varying from 500 to 1,180 feet averaged from 17 dwt .8 gr . to 2 oz .10 dwt . per ton.*
592. Since the first issue of gold-mining leases, the total number Gold-mining granted has been 10,648, giving the right to mine over an area amounting in the aggregate to 193,902 acres. Of these leases, 227, for 4,261 acres, were granted in 1878 , and 1,176 , for 16,840 acres, were in force at the end of that year.
593. The number of gold-mining companies registered in 1878 was gold-mining 81 , the number of shares was $1,035,968$, and the nominal capital $£ 791,960$. In the previous quinquenniad 789 mining companies were registered, with $12,659,436$ shares, and a nominal capital amounting in the aggregate to $£ 9,903,763$.
594. At the end of 1878 the following leases of Crown lands, con- Leases for ferring the privilege of working for minerals and metals other than ${\underset{y}{c}}_{\substack{\text { other } \\ \text { minerals }}}^{\text {and }}$ gold, were in force. The leases were more numerous by 36 than in the previous year, but, notwithstanding this, the area comprised therein was less by 940 acres than in 1877. The improvement as regards the number of leases is due to the impetus which appears to have been given to copper mining during the year under review, for whereas only 2 leases therefor were in force at the end of 1877, as many as 41 were in force at the end of 1878 :-

Leases for Minerals and Metals other than Gold, 1878.

595. According to the estimate of the Mining Department, the fol- Minerals lowing are the values of metals and minerals other than gold raised in $\begin{gathered}\text { other than } \\ \text { gold raised. }\end{gathered}$

[^32]Victoria from 1851 to the end of 1878 . Of these productions, the value in 1878 amounted to $£ 63,914$ :-
Value of Metals and Minerals other than Gold, 1851 to 1878.


Miners for minerals other than gold.
596. The following, according to the estimate of the same department, is the number of men engaged in mining for minerals or metals other than gold* at the end of 1878 :-

| Mineral or Metal |  |  | Number of | Mineral or Meta |  |  | Number of |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mined for. |  |  | Miners. | Mined for. |  |  | Miners. |
| Silver | - | ... | 4 | Coal | ... | ... | 8 |
| Tin | ... | ... | 6 | Slate and flag | ... |  | 27 |
| Copper ... | . | ... | 186 | Kaolin ... | ... | ... | 5 |
| Antimony | ... | ... | 261 | Lignite ... | ... |  | 8 |
| Ironstone | ... | ... | 40 | Total |  |  | 557 |
| Limestone | ... | ... | 12 |  |  |  |  |

Wages of miners, \&e.
597. The weekly rates of wages paid for different descriptions of mining labor in the year 1878 are thus quoted by the Mining Department:-

Rates of Mining Labor, 1878.


Value of mining produce.

Agricultural, pastoral, and mining
598. The estimated value of the produce raised from Victorian mines and quarries in 1878 was as follows:-

Value of Mining Produce, 1878.

| Value of gold raised |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\ldots$ | $\ldots$ | ... | 3,101,088 |
| " | other metals and minerals | ... | ... | $\ldots$ | 63,914 46,988 |
|  | stone raised from quarries | ... | ... | ... | 46,988 |
|  | Total | ... | ... | $\cdots$ | £3,211,99 |

599. The estimated value of the agricultural, pastoral, and mining produce raised in Victoria during each of the last five years is given in the following table. It should be borne in mind that the prices of agricultural and pastoral produce, on which the value mainly depends,

[^33]fluctuates from year to year. In 1878 these prices were below the average.* In all the years the value of the pastoral produce exceeded that of the other two industries combined :-

## Value of Agricultural, Pastoral, and Mining Produce, 1874 то 1878.

|  |  | Estimated Value of- |  |  | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Agricultural Produce. | Pastoral <br> Produce. $\dagger$ | Mining <br> Produce. |  |
|  |  | $\pm$ | £ | £ | £ |
| 1874 | . ${ }^{\circ}$ | 4,410,436 | 9,840,562 | 4,740,679 | 18,991,677 |
| 1875 | - | 4,835,894 | 9,541,551 | 4,475,876 | 18,853,321 |
| 1876 | ... | 5,574,239 | 10,069,570 | 3,949,135 | 19,592,948 |
| 1877 | ... | 5,792,898 | 8,652,471 | 3,322,264 | 17,767,633 |
| 1878 | ... | 4,912,745 | 8,360,265 | 3,211,990 | 16,485,000 |

600. The patents for inventions applied for in 1878 numbered 147, Patents. as against 145 in the previous year. Since 1854 the total number of patents applied for has been 2,628 .
601. The Victorian Copyright Act (33 Vict. No. 350) came into Copyrights. force in December 1869. Since then the following copyrights have been registered:-

Copyrights, 1870 то 1878.


[^34]
[^0]:    * This land may be selected without right of purchase under section 49 of the Land Act 1869, in lots not exceeding 20 acres. The total extent so selected is shown in the next line.

[^1]:    * The sums actuaily received were $£ 146,043$ in 1877 and $£ 184,079$ in 1878, but arrears from previous years are included in both these amounts.
    $\dagger$ Net decrease.

[^2]:    * A summary of the agricultural statistics of each year since the first settlement of the colony.will be found at the commencement of this work (second folding sheet). The mode of collecting agricultural statistics is described in the Victorian Year-Book, 1874, paragraphs 381 to 384.
    $\dagger$ The holdings and land referred to are exclusive of Crown lands held under squatting licenses. See also paragraphs 516 and 517 ante.

[^3]:    * For the population and number of acres under tillage in each Australasian colony during the six years ended with 1878-9, see Summary of Australasian Statistics (third folding sheet) ante.
    $\dagger$ Land under artificial grass in New Zealand is not considered to be under tillage, but it is so in some of the other colonies.

[^4]:    * The produce of crops in Queensland was not given in the years prior to 1878.

[^5]:    Note.-All the calculations in this table were made in the office of the Government Statist, Melbourne. For the land under and total produce of each crop in the respective colonies during the six years ended with 1878-9, see Summary of Australasian Statistics (third folding sheet) ante.

[^6]:    - Imperial bushels, except in the case of Baden, Saxony, and the United States, the produce of the two first of which is given in centners, each equal to 110.232 lbs ., and that of the last in Winchester bushels, each equal to $\frac{32}{3}$ nearly, or, more accurately, to 969,447 of an Imperial bushel.
    $\dagger$ Including spelt (Triticum spelta).

[^7]:    * Imperial bushels, except in the case of the United States, which is given in Winchester bushels, each equal to $\frac{32}{33}$ nearly, or, more accurately, to $\cdot 969,447$ of an Imperial bushel.
    $\dagger$ Including spelt.
    $\ddagger$ The quantities of flour, bread, and biscuit imported and exported are reduced to their equivalent in bushels, on the assumption that 1 bushel of wheat produces 45 lbs . of either of those articles.
    § Calculated at 2 bushels per acre of land returned as being under wheat in the year following that to. which the figures in any line relate.

[^8]:    - The quantities of flour, bread, and biscuit imported and exported are reduced to their equivalent in bushels, on the assumption that 1 bushel of wheat produces 45 lbs . of either of those articles.
    $\dagger$ Calculated at 2 bushels per acre of land returned as being under wheat in the vear following that to which the figures in any line relate.

[^9]:    * The quantity and value of breadstufs imported and exported during each year will be found in the Statistical Summary of Victoria (first folding sheet) ante.

[^10]:    * The total imports and total exports of these articles will be found in the table of imports and exports published in Part VIII., Interchange, post, chiefly under Order 22.

[^11]:    * Exclusive of those grown in gardens.
    $\dagger$ Of this area 72 acres are reported to have iailed.
    $\ddagger$ A large plantation of mulberry trees is reported to have been abandoned in 1876-7, the locality having been found to be ansaitable.

[^12]:    * Exclusive of those grown in gardens.
    $\dagger$ The tobacco crop 1875-6 failed in most of the districts.
    $\ddagger$ A statement of the acreage and produce of vines during each year will be found in the Summary of Agricultural Statistics (second folding sheet) ante.

[^13]:    * See also paragraphs 516 and 517 ante.

[^14]:    * Embracing about 86 per cent. of the total area sold or selected.

[^15]:    * The cultivation on holdings of this size is generally confined to laying the land down in permanent artificial grass.
    $\dagger$ Including alienated land or land in process of alienation only.

[^16]:    * Including aliensted land or land in process of alienation only.
    $\dagger$ See also table of prices pablished in Part VIII., Interchange, par.

[^17]:    * The word "farm," as used in connection with the agricultaral statistics, implies a holding of which no portion is subject to a squatting license. The word "station" implies a holding of which portion is subject to a squatting license. "Farms" consist of alienated land only. "Stationg" consist either of Crown lands only, or of Crown and alienated lands occupied in the same holdings.

[^18]:    * See also table of wages published in Part VIII., Interchange, post. For definition of the term "farm," see last footnote.
    $\dagger$ See also table of wages published in Part VIII., Interchange, post. For def̣nition of the term ${ }^{46}$ station," see footnote to table following paragraph 55 亿 ante.

[^19]:    * Inclnding Isle of Man and Chamnel Islands.
    $\dagger$ Horses used solely for agricultural parposes, unbroken horses and mares kept for breeding.
    $\ddagger$ In the year 1876 .
    § See Part VIII., Interchange, post.

[^20]:    * Four mills in 18i8, and 3 in 1879, were upon Crown lands. In these cases no estimate of the value of the land is given.
    $\dagger$ Four of the breweries in 1878 and 1879 were upon Crown lands. In these cases no estimate of the value of the land is given.

[^21]:    * Forty-three of the brickyards in 1878, and 30 in 1879, were upon Crown lands. In these cases no estimate of the value of the land is given

[^22]:    * Nine of the establishments in 1878, and 11 in 1879, were npon Crown lands. In these cases no estimate of the value of the land is given.

[^23]:    * Two hundred and six of the manufactories in 1878, and 184 in 1879 , were upon Crown lands. In these cases no estimate of the value of the land is given.

[^24]:    * Including all extensive manufactories, whether employing steam or not. For 1863 and 1874 those only which used steam were returned.

[^25]:    * Including all extensive manufactories, whether employing steam or not. For 1869 and 1874 those only which used steam were returned.

[^26]:    * These figures include fellmongeries.
    $\ddagger$ All these establishments used machinery, worked by steam, wind, or horse power. They must not be confounded with chaff-cutting and corn-crushing machines in use on farms and stations, which numbered 13,838 in 1878-9.

[^27]:    * Works for the storage and supply of water are not included in the manufacturing tables. A table of waterworks follows paragraph 577 post.
    $\dagger$ The particulars of these have been combined in accordance with a promise made that the contents of individual schedules would not be pablished.

[^28]:    * Including flour mills, brickyards, potteries, tanneries, fellmongeries, and woollen mills, as well as other manufactories, works, \&c.
    $\dagger$ It is possible that the numbers in this column may include the power of a few water and wind machines used in manufacturing, in addition to the power of the steam engines.

[^29]:    * No reservoir (pipe-head tank).
    $\dagger$ Cost cannot at present be given.

[^30]:    * Forty-nine of the stone quarries in 1878, and 42 in 1879, were upon Crown lands. In these cases no estimate of the value of the land has been given.

[^31]:    * For a statement of the estimated quantity and value of gold raised in each year, see Statistical Summary of Victoria (first folding sheet ante).
    + For the number of gold miners at work at the end of each year, see paragraph 60 ante.
    $\ddagger$ These amounts are sometimes incorrectly spoken of as the "average earnings" of the miners. 1 have pointed out on former occasions that, as a very large proportion of the miners are werking on wages, the gold they raise no more represents their individual carnings than do the products of a manufactory represent the earnings of its operatives.

[^32]:    * See "Mineral Statistics of Victoria for the Year 1878 ;" Pariamentary Paper No. 5, Session 1879.

[^33]:    * For number of gold miners, see paragraph 60 ante.

[^34]:    * For prices of agricultural produce in different years, see table following paragraph 553 ante.
    $\dagger$ The pastoral produce referred to is that derived from the live stock kept by both farmers and squatters.

