HISTORICAL GEOGRAPHY
OF WESTLAND
BEFORE 1914
Volume 3

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15. THE WAIHEA AND RUMAKA GOLDFIELDS POPULATION DISTRIBUTION:

(Based on Garden's Reports and Census Reports)

16. THE ROSS GOLDFIELDS, CUMULATIVE MAP SHOWING MINING AND
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(Based on the following maps:
(1) "Ross Flat, Map Showing Position of Claims and Shafts," 1868, Published, Survey Office, Hokitika.
(2) "Mining Map, Totara Garden's District," 1896, M.S. in
Lands and Survey Dept., Hokitika.
(3) "Town of Ross," 1875, M.S. in Lands and Survey Dept.,
Hokitika.
(4) "Borough of Ross, 1893," M.S. in Lands and Survey
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17a. CHARLESTON TOWNSHIP, 1879

(Based on a tracing of a map held in Lands and Survey
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17b. PART OF CHARLESTON GOLDFIELD, C. 1866.

(Redrawn from an undated M.S. map on scale of 5 chains to
one inch in Lands and Survey Dept., Nelson)

18. HOKITIKA, COMMERCIAL AREA, 1866.

(Buildings traced from "Original Crown Grant Map of
Hokitika", January 1867. M.S. in Lands and Survey Dept.,
Hokitika. Land use interpolated from Barnett and Co:
"West Coast Goldfields Directory," 1866.)
Note: In about 9 percent of the buildings there were anomalies between the street directory and the plan; these were resolved merely by informal guesswork. But the error would not extend to more than 2 or 3% adjacent buildings and rarely more than a total street frontage distance of thirty feet.)

19. TOWNSHIP OF STAFFORD, 1871 and 1905

(Redrawn at a reduced scale from "Town of Stafford", 1871 and "Town of Stafford," 1905, both on a scale of one chain to one inch. M. in Lands and Survey Dept., Hokitika)

20. TOWNSHIP OF KAIERI, 1872

"Redrawn from "Kaiserri Township," 1872, on scale of one chain to an inch, M. in Lands and Survey Dept., Hokitika, 1872.

21. ORBIA LIQUID, (TACI GULLY, ARROW BALLEY), Showing Surveyed Section Boundaries as Laid out AfterHighest Erection of Buildings.

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22a. ROUTESAYS, 1866

(Compiled from various contemporary descriptions and maps)

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(Compiled from various contemporary descriptions and maps)

23. ORIGIN OF MOKITIKA IMPORT TRADE, 1866


24a. POPULATION DISTRIBUTION, 1876

24b. POPULATION DISTRIBUTION, 1881

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(Three maps, plotted from detailed County returns in "Census of New Zealand" 1876 and 1891)

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(Compiled from Electoral District, County and Borough details in the census volumes for these years)

26. DEVIATIONS FROM THE NEW ZEALAND AGE AND SEX STRUCTURE FOR 1881 IN HOKITIKA BOROUGH AND ENTAURU COUNTY

(Compiled from County and Borough age and sex details, 1881 "Census of New Zealand")

27a. DISTRIBUTION OF GOLD MINERS, EUROPEAN AND CHINESE, 1866

27b. VALUE OF GOLD MINING APPLIANCE FOR MINING INDUSTRY, 1880
27c. GOLDFIELDS "COST OF LIVING INDEX", 1930

(The three maps of Fig. 27 are based on Tables in "Report on the Gold Fields of New Zealand," Appendices to Journals, House of Representatives, 1860, H. 26.

28. PLAN OF HICKLUNDERS' SETTLEMENT ON MIND MUS, BEACH YARD CHARLESTON, 1869

(Drawn from "Plan of Sections, Block III", Waitakere S.D." 1869, I.S., Lands and Survey Dept., Nelson)

29. PART OF JACKSON BAY SPECIAL SETTLEMENT, 1872

(Readrawn from "Part of Special Settlement Block I" N.d. (1974?), I.S., in Lands and Survey Dept., Nelson)

30. THE GREYHOUND GOLDFIELD

(Output statistics for this and the following two figures, are from "Reports on the Control and Inspection of Coal Mines" and the "Lines Statements;" coal analyses from J. O. Elphick, "A User's Directory of New Zealand Coals," D.S.I.R. Inf. Series, Bull. No. 40, 1956; mine workings from Mines Department and R.E. Geological Survey Plans)

31. THE FULLER GOLDFIELD

32. THE REEFER COALFIELDS AND QUARTZ FIELD

33. THE HANGAHUA GOLDFIELD: OUTPUT BY MINE, 1872 - 79; 1889 - 89; 1906 - 09 and BY GROUPS OF MINE, 1872 - 1914


34. NORTH-SOUTH SECTION THROUGH PART OF HANGAHUA GOLDFIELD


35a. POPULATION DISTRIBUTION, 1901

35b. POPULATION DISTRIBUTION, 1911

35c. INCREASE OR DECREASE OF POPULATION, 1901-1911

36a. ALLUVIAL MINING CLAIMS, 1902

(Compiled from table in "Report on the Goldfields of New Zealand," 1903)

36b. GOLD DREDGES AND QUARTZ MINES, 1902

(Compiled from the source cited above)

36c. GOLD DREDGES AND QUARTZ MINES, 1910

(Compiled from "Information in "Report on the Goldfields of New Zealand", 1911)

37. SAMUEL IN GOLDFIELD, 1906-07
Figure No.

(Compiled from table of sawmill outputs in "Report on the Timber Industry in New Zealand for 1906-07," Appendix to Journals, House of Representatives, C.I., 1907)

38. SAMMILLING PATTERNS NEAR LAKE DRUNKER, 1906

(Re drawn from "Maps of Arnold Valley Timber Areas," 1905-1906, H.S., on scale of 20 chains to one inch in Lands and Survey Dept., Hokitika.

39a. DAIRY FACTORIES, 1911-12

39b. DAIRY FACTORIES, 1914-15

(Based on tables in "Annual List of Creameries, Factories, Private Dairies and Packing Houses," 1912 and 1915)

39c. PARKING LAND ABOUT 1914

40. AREAS OF HUMAN SIGNIFICANCE REPORT 1914 (To Illustrate Chapter 13, "Regional Summary")
Fig. 1. The Westland Region in relation to Political and Administrative Boundaries, Past and Present.
TYPES OF TERRAIN
PHYSICAL REGIONS

1. Karamea Lowlands
2. Buller Coalfield
3. Northern Mountains
4. Buller Coast Plain
5. Buller Plain
6. Punakaiki Te·tiary Hill Country
7. Barrytown Fault
8. Poporoo Range
9. Victoria Ranges
10. Brunner-Whakatane Range
11. Central Lowlands
12. Greymouth Coastal Plain
13. South Western Lowlands
14. Hoekshoek Coastal Plain
15. Southern Coast Range
16. South-western Coastal Mountains
17. South-western Mountainous Plateau
Major Forest Types

[Map showing different forest types with symbols:
- Lowland Podocarp
- Podocarp with local Beech element
- Beech with local Podocarp element
- Mountain Broadleaf and Podocarp
- Alpine
- Lakes

Open Vegetation

Below Timberline at time of European Settlement

[Bog vegetation - Pakih and Swamp
Dry Grassland and Fern with scattered trees and scrub

Legend:
- Cape Foulwind
- Cascade Point

30 miles scale]
REDRAWING OF SMART'S SKETCH MAP, 1864, OF PROSPECTING AREA BETWEEN GREY AND TARAMAKAU RIVERS
WESTLAND GOLD RUSH
in its
SOUTH ISLAND SETTING

ROUTES OF MIGRATION
BY GOLD DIGGERS
IN 1864-5

Land
Sea

from Australia

GENERALISED LAND USE
1864-5
EXTENSIVE PASTORAL OCCUPATION
CLOSE AGRICULTURAL SETTLEMENT
GOLDFIELDS
POPULATION CHANGES IN SOME WESTLAND TOWNSHIPS

Dates of Census
1767 71 74 78 81 85 86 91 95 96 00 04 06 11 16 21 26 31 36 41 45 51

CHARLESTON \*+ ++ ++ ROSS
KUMARA ~ BRUNNER
RUNANGA
IRELAND:
BIRTHPLACES By Counties
of 322 persons in
Westland Goldfields
Cemeteries
Fig 14a.
GOLD WORKINGS 19th CENTURY

Red line marks approximate westward margin of moraine from last glaciation

Fig. 14b.
GOLDFIELDS SETTLEMENTS

HINTERLANDS OF COMMERCIAL TOWNS
1868:
Westport in brown
Greymouth in blue
Hokitika in red

Extensions to Greymouth Hinterland by 1885 are shown in blue dotted line

See text, chapter 8 for key to names of townships and mining camps.
ORIGIN OF HOKITIKA IMPORT TRADE 1866
Increase or Decrease of Population 1878-1891

Persons
- 20
- 100
- 200
- 500
- 1000

INCREASE

DECREASE

Miles
In the course of 1867 the rate for the age of males over 60 and over 70 years was not recorded. A loss of 1.9% occurred in the total male population. The 1861 data do not give an accurate picture of the male population. The 1867 data are more reliable.

**Assumption A:** The proportions in various five-year age groups over 60 years as recorded in the 1861 census are projected back and are compared with the total 1861 population in the 1867 and 1871 years. This gives a more precise picture of the structure of the male population than the 1861 census.
DEVIATIONS FROM REGIONAL PATTERN
OF AGE AND SEX GROUPS 1881
Fig. 27a

DISTRIBUTION OF GOLD MinERS, EUROPEAN & CHINESE 1880

Fig. 27b

VALUE OF GOLD MINING APPLIANCES [MACHINERY, WATER RACES & DAMS] PER MINER EMPLOYED 1880

Fig. 27c

WESTLAND GOLDFIELDS COST OF LIVING INDEX 1880

FIGURES INDICATE AVERAGE PRICE IN SHILLINGS OF 100lbs of FLOUR
1. Seddaneville Group
2. Churring Creek
3. Millerton
4. Stockton
5. Dunston
6. Corratch
7. Butler Gorge Group

MINE WORKINGS
MINE WORKINGS up to 1950
UNWORKED COAL INDICATED BY DETAILED PROSPECTING

CALORIFIC VALUE

COKEING PROPERTIES

SULPHUR CONTENT

ANNUAL AVERAGE OUTPUT
OF COAL MINES
SAWMILLS
1906-07

Miles
ANNUAL PRODUCTION OF SAWMILLS IN BOARD FEET
- 150,000
- 250,000
- 500,000
- 1 MILLION
- 2 MILLION
- 4 MILLION

Reefton
Greytown
Westport

- RAILWAYS
- MILLS CUTTING FOR LOCAL CONSUMPTION IN WESTLAND
- MILLS CUTTING CHIEFLY FOR EXPORT

SPECIES CUT:
S. Silver Pine
B. Beech
AS. Amy & Silver Pine
AS. Rimu & Beech
AS. Rimu & Kahikatea
Some varieties otherwise indicated