Index

Note: Italic page numbers indicate figures and tables; numbers in brackets preceded by n refer to endnotes.

abalone 27, 28
ABARES (Australian Bureau of Agricultural and Resource Economics and Sciences) 18, 114–115
Aboriginal people 12, 39, 40, 41, 92, 138, 146
and sustainable farming 158, 159, 163, 167
ABS (Australian Bureau of Statistics) 18, 147–148, 170
ACF (Australian Conservation Foundation) 147
ACIAR (Australian Centre for International Research) 123, 124–125, 133
ACT see Australian Capital Territory
AEC (Australian Environment Council) 37
AgForce Queensland 58, 64
AGO (Australian Greenhouse Office) 160
agricultural colleges 129
Agricultural Council of Australia and New Zealand 36
agricultural education 114, 128–129, 132, 187, 188
agricultural exports 24, 25, 26, 28–31, 29, 30
assistance for 103
deregulation of 84, 96
regulation of 75, 76, 80, 82
agricultural extension 111, 115, 124, 126–128
agricultural shows and 114, 127
challenges with 132, 133
communications media and 127–128, 133, 134
conservation/sustainability programmes 126
diversity of 127–128
agricultural inputs 16, 20–21, 20, 21
and carbon tax 160
fodder 20, 20, 23
seed 20, 20, 48
subsidies on 81, 82, 191
wages 20, 20
see also fertilizers; herbicides
agricultural market see marketing
agricultural outputs 16, 21–28
agricultural regulation 74, 75–83
bounty payments 75–76, 77–78
buffer schemes 78, 80, 82, 84
Commonwealth intervention 75
discriminatory pricing 76, 80
diversity of instruments/schemes 82–83
agricultural regulation continued
federalism and 82
and IAC/Green Paper (1974) 82
and marketing crises 75-76
origins of 75
price stabilization schemes 78-79, 82
problems with 83, 190-191
and rural reconstruction/adjustment
(1970s) 81-82
subsidies on inputs 81, 191
of tobacco 77, 79-80
wheat policy: 1930s 76-77
for wool 80
agricultural service institutions 47-48, 49
and cooperatives 58
private sector 48
agricultural shows 114, 127
agricultural trade 16, 24, 25, 26, 28-29, 29, 65
and institutional arrangements 35
interstate 35, 36, 49
liberalization of 66-67
regulation of see agricultural regulation
see also marketing
Agriculture — Advancing Australia (AAA) 90-91
agriculture departments, state 41, 44, 48, 49
Agriculture, Fisheries and Forestry Dept 115, 118, 120
Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) 36-37
AHA (Animal Health Australia) 182, 183
allotted (privately owned) land 39-40, 40
ALP (Australian Labor Party) 43, 74, 81, 91-94
Anderson, John 39
animal feed 23, 48, 76
Animal Health Australia (AHA) 182, 183
animal health products 21
animal welfare 65, 125
ANZECC (Australia New Zealand Environment and Conservation Council) 37
apple/pear growing 19, 155
AQIS (Australian Quarantine and Inspection Services) 5, 48
aquaculture 28, 37, 125
aquifers 12
ARMCANZ (Agriculture and Resource Management Council of Australia and New Zealand) 36-37
ASCC (Australian Soil Conservation Council) 36
ASEAN (Association of South-east Asian Nations) 180
Austrade 103, 180
Australias
agricultural development in 3, 12-31
agricultural environment in 6, 8-12, 145-147
Agriculture/Fisheries/Forestry Dept see DAFF
climates of 9-10, 11
Constitution of see Australian Constitution
economy of 16, 29-31, 30
Federal Government 15, 36-37, 38, 39, 44-48, 55, 93, 94-95
federal-state powers in see under institutional arrangements
geographical isolation of 138-139
institutional arrangements of see institutional arrangements
land/soil of 12, 13, 16
marine environment of 27-28
rivers/lakes of 11-12
rural politics in see rural politics
settlement history of 8, 12-14, 138, 139, 145-147
state structure of 8-9
topography of 10-11
Australia New Zealand Environment and Conservation Council (ANZECC) 37
Australian Agricultural Council 36
Australian agriculture 12-31
as business/industry 96
contribution to Australian GDP of 29-31, 30
farm inputs/costs see agricultural inputs
farm numbers/rural employment in 16-18, 17
future of 7, 188
high quality/standards of 5
industry distribution of 18, 19
land available for 16, 29, 30
Index

land ownership in see land tenure
low government support for 3, 4, 6, 28
origin/evolution of 12–15
outputs/productivity of 16, 21–28
success of 3, 4–5, 6, 31, 44, 50, 188
sustainability of 5
trade/exports see agricultural exports
Australian Bureau of Agricultural and Resource Economics and Sciences (ABERS) 18, 114–115
Australian Bureau of Statistics (ABS) 18, 147–148, 170
Australian Capital Territory (ACT) 9, 18, 150
land tenure in 40
Australian Centre for International Research see ACIAR
Australian Conservation Foundation (ACF) 147
Australian Constitution 35–39, 49
Section 51 35, 36
Section 92 35, 36
Section 128 38
and state/territory government 35, 36
Australian Dairy Farmers’ Limited 64
Australian Environment Council (AEC) 37
Australian Greenhouse Office (AGO) 160
Australian Livestock Exporters’ Council 64
Australian Livestock and Property Agents Association 64
Australian Quarantine and Inspection Services (AQIS) 5, 48
Australian Soil Conservation Council (ASCC) 36
Australian Veterinary Association 64
Australian Wine Research Institute 116
Australian Wool Realization Commission 86
Australian Year of the Farmer (2012) 104, 187
Australia’s Farming Future programme 91–94, 102, 159, 181
and drought assistance 92–93
elements of 92
and welfare payments 93–94
AWB (Australian Wheat Board) 59, 83–84, 87, 94
AWBI (Australian Wheat Board International) 84
AWC (Australian Wool Corporation) 80, 85
AWRC (Australian Water Resources Council) 36
Barclay, E. 183
barley 13, 22, 23, 24
export prices 29
Beechworth Honey Pty Ltd 64
beef farming see cattle/beef farming
beekeeping 19, 157
berry fruit growing 19, 155
biodiversity 12, 27, 61, 66, 146, 147, 159, 162, 164, 167
biofuels 125
bioregions 162, 164, 173–174(n3)
biosecurity 47, 48, 66, 94, 96, 125, 182–183, 187
Boran cattle 140–141
bounty payments 75–76, 77–78
Brahman cattle 140–141
brewing industry 76
Britain (UK) 78
Brown, Wes 141, 169
BSIS (Bureau of Sugar Experiment Stations) 116, 117
Burdekin River 11
bushfire 10, 148, 749
business management 60–61, 106–108
business sector 62, 65, 69, 96
butter 15, 26, 76, 77
Cairn Group Farm Leaders Forum 67
Campbell, K.O. 39, 43, 57, 98(m1, 2)
Canada 4, 8, 180
cane toads 147
CANEGROWERS 64
canned fruits 76
capacity building 91, 92, 168, 182
Carbon Pollution Reduction Scheme (CPRS) 160
carbon sequestration 160, 181
carbon trading/tax 160, 181
Caring for our Country programme see CPC
Cattle Council of Australia 58, 59, 64
cattle/beef farming 18, 19, 26, 125, 150, 153, 155
cross-breeding and 140–141entepreneurship in 108–109
cattle/beef farming continued
environmental issues/sustainability in 150, 153, 155, 167-168
export prices 28-29
and GHG emissions 166
traceability in 5
Central Lowlands 10
Central West Farming Systems (CWFS, NSW) 142
CFC (Caring for our Country) programme 153-159, 158, 167, 168
priority areas for 158, 159
CFI (Carbon Farming Initiative) 181
cheese 26, 77
ChemClear programme 165
chemicals, use/disposal of 165-166, 185, 191
Chile 180
China 50, 70, 180
citrus fruits 19, 155
climate 9-10, 11
see also weather
climatic change 61, 125, 146, 147
adjustment assistance for 92-94
and livestock sector 166
responses to 159-160, 164, 181
Climate Change Research Programme 114
COAG (Council of Australian Governments) 36, 38
coarse grains 23, 24
coffee 77
Commonwealth Authorities and Companies Act (1997) 122
Commonwealth Scientific and Research Organisation see CSIRO
Community networks 93
see also Landcare movement
CONCOM (Council of Nature Conservation Ministers) 37
Connors, Tom 56, 62-63, 73(m1)
conservation 16, 67, 126, 147
Cooperative Research Centres see CRCs
Cooray, M. 43
Corporate Agricultural Group 64
Corporations Act (2001) 118
cotton 19, 23, 24, 29, 104-105, 119, 125, 156
Cotton Australia 64
Council of Australian Governments (COAG) 36, 38
Country Law Firm Member Benefit Program 62
Country party see National Party
CPRS (Carbon Pollution Reduction Scheme) 160
CRCs (Cooperative Research Centres) 113-114, 123-124, 125, 133
areas of activity 124
Directory 124
term of 124
crisis management 93, 94
crop exports 24, 25
crop production 21, 22-23, 22, 24-25, 150
environmental issues in 150, 156
and weather conditions 23
cropping systems 13, 163, 169-170
CRRDC (Council of Rural Research and Development Corporations) 117, 120, 121, 121, 122
CSIRO (Commonwealth Scientific and Research Organization) 112, 113, 116, 125, 126, 133
CWFS (Central West Farming Systems, NSW) 142
DAFF (Dept of Agriculture, Fisheries and Forestry) 48, 91, 92, 114, 115, 126-127
policies/programmes of 95
and rural RDcs 119, 121
and sustainable farming 153
Dairy Australia 119, 122, 126, 129
dairy farming 18, 19, 23, 26, 119, 125
deregulation of 85
environmental issues in 153, 156
farmer organizations for 58, 64
and farmers’ incomes 81
and regulation 76, 77, 78
share-farming model of 43
see also butter; cheese: milk
Debt Reconstruction with Interest Subsidy (DRIS) 89
debt relief 88, 89, 97
deer farming 19, 157
deforestation 147
deregulation 6, 31, 36, 47, 74-99
adjustment assistance for 87-94, 96-97
<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture—Advancing Australia</td>
<td>90-91</td>
</tr>
<tr>
<td>(AAA) package</td>
<td></td>
</tr>
<tr>
<td>Australia’s Farming Future</td>
<td></td>
</tr>
<tr>
<td>see Australia's Farming Future</td>
<td></td>
</tr>
<tr>
<td>and climate change</td>
<td>92</td>
</tr>
<tr>
<td>of dairy industry</td>
<td>85</td>
</tr>
<tr>
<td>developing countries and</td>
<td>97-98</td>
</tr>
<tr>
<td>97-98</td>
<td></td>
</tr>
<tr>
<td>of egg industry</td>
<td>85</td>
</tr>
<tr>
<td>lessons from Australian experience</td>
<td>96-98</td>
</tr>
<tr>
<td>regulation regime prior to</td>
<td></td>
</tr>
<tr>
<td>see agricultural regulation</td>
<td></td>
</tr>
<tr>
<td>resistance to</td>
<td>87-88, 97</td>
</tr>
<tr>
<td>and role of government</td>
<td>94-95</td>
</tr>
<tr>
<td>Rural Adjustment Scheme see RAS</td>
<td></td>
</tr>
<tr>
<td>Rural Reconstruction Scheme (RRS)</td>
<td>88</td>
</tr>
<tr>
<td>success of</td>
<td>95</td>
</tr>
<tr>
<td>of sugar industry</td>
<td>86-87, 88</td>
</tr>
<tr>
<td>of wheat market</td>
<td>83-84, 94</td>
</tr>
<tr>
<td>of wool industry</td>
<td>85-86</td>
</tr>
<tr>
<td>DER (Dept of Environment and Resource</td>
<td></td>
</tr>
<tr>
<td>Management, QLD)</td>
<td>161-162</td>
</tr>
<tr>
<td>developing countries</td>
<td>6, 124-125, 134, 135, 144</td>
</tr>
<tr>
<td>farmers’ interests in</td>
<td>72</td>
</tr>
<tr>
<td>regulation/deregulation in</td>
<td>97-98, 190-191</td>
</tr>
<tr>
<td>diseases</td>
<td>5, 48, 94</td>
</tr>
<tr>
<td>control</td>
<td>21, 22, 47, 66, 182</td>
</tr>
<tr>
<td>Donald, C.M.</td>
<td>138</td>
</tr>
<tr>
<td>Donovan, P.</td>
<td>163</td>
</tr>
<tr>
<td>dried fruits</td>
<td>76, 77</td>
</tr>
<tr>
<td>Dried Fruits Australia</td>
<td>64</td>
</tr>
<tr>
<td>DRIS (Debt Reconstruction with Interest</td>
<td></td>
</tr>
<tr>
<td>Subsidy)</td>
<td>89</td>
</tr>
<tr>
<td>drought</td>
<td>10, 11, 60, 92, 103, 141, 181</td>
</tr>
<tr>
<td>drumMUSTER programme</td>
<td>165-166</td>
</tr>
<tr>
<td>Eastern Highlands</td>
<td>10-11</td>
</tr>
<tr>
<td>economies of scale</td>
<td>49</td>
</tr>
<tr>
<td>ecotourism</td>
<td>107-108</td>
</tr>
<tr>
<td>education</td>
<td>65, 66, 67, 109, 153, 168, 184</td>
</tr>
<tr>
<td>agricultural</td>
<td>114, 128-129, 132, 187, 188</td>
</tr>
<tr>
<td>see also training</td>
<td></td>
</tr>
<tr>
<td>Education Dept</td>
<td>128</td>
</tr>
<tr>
<td>egg industry</td>
<td>119</td>
</tr>
<tr>
<td>deregulation of</td>
<td>85</td>
</tr>
<tr>
<td>regulation of</td>
<td>79</td>
</tr>
<tr>
<td>elections</td>
<td>44, 54-55, 65, 70-71, 186</td>
</tr>
<tr>
<td>malapportionment approach to</td>
<td>71</td>
</tr>
<tr>
<td>EMDG (Export Market Development</td>
<td>103</td>
</tr>
<tr>
<td>Grants) scheme</td>
<td></td>
</tr>
<tr>
<td>emerging challenges</td>
<td>7, 65-66, 119, 125, 131-132, 179-188</td>
</tr>
<tr>
<td>biosecurity threats</td>
<td>182-183, 187</td>
</tr>
<tr>
<td>environmental protection</td>
<td>185</td>
</tr>
<tr>
<td>farm succession</td>
<td>183-184, 188</td>
</tr>
<tr>
<td>labour/skills shortage</td>
<td>184</td>
</tr>
<tr>
<td>price/currency fluctuations</td>
<td>75, 181</td>
</tr>
<tr>
<td>uncertain world markets</td>
<td>179-181, 187</td>
</tr>
<tr>
<td>urban/rural divide</td>
<td>186-187</td>
</tr>
<tr>
<td>volatile weather</td>
<td>181-182, 187</td>
</tr>
<tr>
<td>employment</td>
<td>16-18, 17, 51</td>
</tr>
<tr>
<td>labour shortage</td>
<td>184, 188</td>
</tr>
<tr>
<td>entrepreneurship</td>
<td>7, 31, 49, 68-69, 101-110</td>
</tr>
<tr>
<td>assistance programmes/grants for</td>
<td>102-103</td>
</tr>
<tr>
<td>availability of information</td>
<td>103</td>
</tr>
<tr>
<td>business diversification</td>
<td>106-108</td>
</tr>
<tr>
<td>case studies</td>
<td>104-109</td>
</tr>
<tr>
<td>challenges of</td>
<td>109</td>
</tr>
<tr>
<td>cultural change towards</td>
<td></td>
</tr>
<tr>
<td>institutions/ measures for</td>
<td>10-14</td>
</tr>
<tr>
<td>lessons for</td>
<td>105-106</td>
</tr>
<tr>
<td>need for</td>
<td>101, 110</td>
</tr>
<tr>
<td>rewarding</td>
<td>103-104</td>
</tr>
<tr>
<td>state-level assistance for</td>
<td>103</td>
</tr>
<tr>
<td>tourism and</td>
<td>107-108</td>
</tr>
<tr>
<td>vertical integration</td>
<td>108-109</td>
</tr>
<tr>
<td>see also innovation</td>
<td></td>
</tr>
<tr>
<td>environmental education</td>
<td>153</td>
</tr>
<tr>
<td>environmental issues</td>
<td>5, 37, 38, 66, 67, 105, 145-147</td>
</tr>
<tr>
<td>biodiversity see biodiversity</td>
<td></td>
</tr>
<tr>
<td>biosecurity</td>
<td>47, 48, 66, 94, 96, 125, 182-183, 187</td>
</tr>
<tr>
<td>chemical use/waste</td>
<td>165-166, 185</td>
</tr>
<tr>
<td>climate change see climate change</td>
<td></td>
</tr>
<tr>
<td>and farming community</td>
<td>147-153</td>
</tr>
<tr>
<td>industry level</td>
<td>150-153, 154-157</td>
</tr>
<tr>
<td>introduced species</td>
<td>147</td>
</tr>
<tr>
<td>land clearance</td>
<td>14, 28, 81, 145-146, 147</td>
</tr>
<tr>
<td>pests see pests</td>
<td></td>
</tr>
<tr>
<td>soil erosion/salinity</td>
<td>12, 145-146, 147, 150</td>
</tr>
<tr>
<td>state level</td>
<td>148-150, 149, 151-152</td>
</tr>
</tbody>
</table>
Index

environmental issues continued
  weed problems 148, 149, 150, 154
  see also NRM; sustainable farming
Environmental Stewardship programme 66, 67, 159
Environmental Sustainability Action Plan (Orange City, NSW) 164
European Union (EU) 4, 6
Exceptional Circumstances (EC) assistance measures 92
Export Market Development Grants (EMDG) scheme 103
Eyre, Lake 9, 11

family farms 16–18, 183–184
Farm Household Support (FHS) scheme 90
Farm Management Deposits Scheme 91, 181
farm ownership 18
farm succession 183–184, 188
FarmBiz/Farm Help 91
farmer organizations 56–69, 71, 72, 142
  apolitical nature of 68, 72
  associations 44, 49, 58, 60–62, 61
  and business management 61
  cooperatives 54, 57–58, 59–60
  councils 58
  data gaps for 59
  divisions between 62–64
  federations 58
  grass-root/state/national level 58–59
  leadership in 68
  legal services offered by 62, 63
  literature on: 72–73(n1)
  membership/finances of 60, 61, 62, 63, 64, 68–69
  and National Party 54–55, 57
  number of 59
  operation/structure of 59–67
  state-level 58
  success of 62, 67–69
  types of 57–58
  farmers 53–72, 192
  agricultural services for 47–48
  entrepreneurship of see entrepreneurship
  incomes of 16–18, 23, 31, 81, 190
  inducements for industry exit 81, 88, 89, 93, 94

involved in policy process 47
  non-discriminatory policies for 49, 50, 51
  number of 16–18, 17
  poverty and 71, 191
  and rural politics see rural politics
  succession planning 183–184, 188
  and sustainability 169–170
  Year of the 104, 187
farmers' interests, protection of 6, 44–45, 53, 55, 98
  healthcare provision 69–70, 72
  infrastructure provision 66, 70, 188
  lessons from Australian experience 72
  rural voting power 70–71
  welfare provision see social security
FarmsReady 102, 181
farms, foreign-owned 18
fencing 81, 172
fertilizers 5, 20, 21, 81, 130, 140, 152
FHS (Farm Household Support) scheme 90
financial management 101, 102
fire risk 148, 149
Fisheries RDC (FRDC) 119, 119
Fisheries Resources Research Fund 114
fishing industry 27–28, 30, 37, 119, 125
  aquaculture 28, 37, 125
Fitzroy Basin Association 126
Fitzroy River 11
floods 10, 92
floriculture 19, 154
fodder 20, 21
food prices 97
food security 6
  95, 182
  182
food security 6
forestry 16, 28, 30, 37, 119, 125
FRDC (Fisheries RDC) 119, 119
free trade agreements (FTAs) 180–181
free trade/market 66–67, 94, 96, 101, 180
freehold land 3, 39, 40, 42
fruit/nut farming 18, 19, 128, 150, 155
fungicides 21, 22, 48

GAB (Great Artesian Basin) 12
Garnaut Climate Change Review 159
gender issues 108
Index

GGIPs (Grower Group Innovation Projects) 142-143
Gillard, Julia 160
Goat Industry Council of Australia 58, 64
grain farming 18, 19, 21, 22, 119, 119, 125, 150, 153
coarse 23
environmental issues in 150, 153, 155, 156
and feed grains/livestock production 23, 76
seed inputs 20, 20, 48

GrainCorp 64
Grains RDC (GRDC) 122, 126
Granshaw family 143
grapes see viticulture
gross-root farmer organizations 58
grazing 13, 16, 149, 163, 164
and land tenure 41

Great Artesian Basin (GAB) 11
Great Depression 15
Great Dividing Range 10, 11
Greenhouse Challenge Program 159-160
groundnuts 23
Grower Group Innovation Projects (GGIPs) 142-143
grower groups 126, 142-143

HAL (Horticulture Australia Limited) 119
Harris, D. 85
harvesting 48, 60, 181
Hay Cups 143
health care 69-70, 72
health and safety 62, 95
heatwaves 10
herbicides 21, 22, 48, 149
horse farming 19, 157
horticulture 125, 128, 164
Horticulture Australia Limited (HAL) 119
household support see social security
Howard, John 159-160
Hunter River 11

IAC (Industry Assistance Commission) 82, 86-87, 88
IC (Industry Commission) 87

import restrictions 48, 78, 82, 182
India 50, 70
industrial relations (IR) 62, 63, 65, 66
industrialization 72, 75, 81
industry-owned corporations (IOCs) 118, 120, 121
information, access to 103, 127-128
infrastructure 66, 70, 72, 188
innovation 5, 7, 14, 31, 50, 94, 95, 137-144
cross-breeding cattle 140-141
encouraging/fostering/rewarding 141-143, 144
and geographical isolation 138-139
and Grower Group Innovation Projects (GGIPs) 142-143
and lack of indigenous agriculture 138
need for 137-139
optimisation of operations 139-140
pasture management 141
sediment trapping 141
and survival 139

entrepreneurship
innovation, Science and Research, Dept of 114, 115, 123
insecticides 21, 22, 48
institutional arrangements 6, 31, 35-51, 71
agricultural services see agricultural service institutions
agriculture departments/ministers 41, 44
ARMCANZ 36-37
Constitution and see Australian Constitution
federal-state powers 35, 36-37, 38-39, 47-48, 49, 94-95
interstate cooperation 35, 36, 47-48, 49
land tenure see land tenure
lessons for other countries 50-51, 192
natural resources management (NRM) issues 37
non-discriminatory issues 37
policy/public inquiry process 45-47, 49
private sector 48, 50
public servants and 44
R&D see research and development
Index

institutional arrangements continued
and responsible government 44, 49
transparency in 45, 47, 50, 51
see also agricultural regulation, deregulation
insurance 48
Intergovernmental Agreement for a National Water Initiative 67
international community 6, 180
international market 5, 6, 94, 101
free trade agreements (FTAs) 180-181
uncertainty in 179-181, 187
see also agricultural exports, import restrictions
Internet 62, 70, 103, 108-109, 116, 128, 182
interstate cooperation 35, 36, 47-48, 49
introduced species 147
IoCs (industry-owned corporations) 118, 120, 121
IR (industrial relations) 62, 63, 65, 66
Irrigation 23, 75, 81, 139-140, 146, 185
Japan 4, 6, 180

Kefford, B. 126
Keogh, M. 129, 130, 132
Kerin, John 39, 118, 125
Kilpatrick, S.K. 184
Kimberley region 10
kiwi fruit 19, 155
Kyoto Protocol 160

labour costs 75
lakes 11-12
lamb 26, 27, 86, 109
land clearance 14, 28, 81, 145-146, 147
land tenure 18, 35, 39-43, 49, 50
and Aboriginal people 39, 40, 41
freeshold 39, 40, 42, 43
importance of 39
and land improvement 43
leasehold see leasehold land
private leases 42
and public/private ownership 39-40, 40, 43
and selling of land 51(n1)

share-farming 43, 106-107
see also farm ownership
land use 16, 29, 30, 35
Landcare movement 93, 158, 159, 166-169, 173, 187
Little River (NSW) 168-169
Roper River (NT) 167-168
Landline (TV show) 127
Law Society 62
leasehold land 39, 40-42
forfeits/fines and 41-42
pastoral/general 43
perpetual 43
Leckie, Ross/Prue 169, 172
legal services 62, 63
Liberal party 54, 55
Little River Landcare Group (NSW) 168-169
LiveCorp 119, 122
livestock imports 48
livestock production 21-22, 22, 119, 150, 157
feed grains and 23
sustainable 166
see also cattle/beef farming, sheep farming
livestock slaughtering 21, 22, 26, 108, 109
Lloyd, A.G. 74, 82, 98(n1)
lobby groups 67, 69, 171
lobster 27
lupins 22, 106-107, 169

McCull, J. 91
maize 13, 23
malapportionment 71
Malaysia 180
Malcolm, B. 186
Marcus Oldham agricultural college 128
margarine 78
market access 48, 94, 95, 179-180
marketing 4-5, 20, 20, 35, 44, 48, 55, 61
cooperatives and 59-60
crises in (1920s) 75-76
deregulation see deregulation and entrepreneurship 101, 102
international see international market regulating 75, 77
wheat 59-60, 80, 83-84, 94
see also agricultural trade: free trade/market
<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mauldon, R.G.</td>
<td>74, 83, 88, 98(n1)</td>
</tr>
<tr>
<td>MDBA (Murray-Darling Basin Authority)</td>
<td>172</td>
</tr>
<tr>
<td>meat exports</td>
<td>26, 27</td>
</tr>
<tr>
<td>meat inspection/standards</td>
<td>108, 109</td>
</tr>
<tr>
<td>Meat and Livestock Australia (MLA)</td>
<td>119, 166</td>
</tr>
<tr>
<td>media</td>
<td>127–128, 133, 134, 153</td>
</tr>
<tr>
<td>medical care</td>
<td>49</td>
</tr>
<tr>
<td>Mieglich, John</td>
<td>139–140</td>
</tr>
<tr>
<td>milk</td>
<td>139–140</td>
</tr>
<tr>
<td>mining</td>
<td>14, 165</td>
</tr>
<tr>
<td>Mitchell River</td>
<td>11</td>
</tr>
<tr>
<td>MLA (Meat and Livestock Australia)</td>
<td>119, 166</td>
</tr>
<tr>
<td>MMC (Molong, Manildra and Cumnock)</td>
<td>Co-op 57, 58, 59–60, 69</td>
</tr>
<tr>
<td>mountains</td>
<td>10</td>
</tr>
<tr>
<td>Mullen, J.D.</td>
<td>130</td>
</tr>
<tr>
<td>Murray Goulburn Co-operative</td>
<td>58</td>
</tr>
<tr>
<td>Murray River</td>
<td>11</td>
</tr>
<tr>
<td>Murray-Darling Basin</td>
<td>10, 11, 172, 185</td>
</tr>
<tr>
<td>Murray-Darling Basin Authority (MDBA)</td>
<td>172</td>
</tr>
<tr>
<td>mushroom growing</td>
<td>18, 19, 154</td>
</tr>
<tr>
<td>mutton</td>
<td>26</td>
</tr>
<tr>
<td>National Adaptation and Mitigation Initiative</td>
<td>126</td>
</tr>
<tr>
<td>National Farmers' Federation</td>
<td>see NFF</td>
</tr>
<tr>
<td>National Party (NP, prev. Country Party)</td>
<td>54–56, 57, 71</td>
</tr>
<tr>
<td>National Reserve System</td>
<td>159</td>
</tr>
<tr>
<td>Native Vegetation Act (1991)</td>
<td>163</td>
</tr>
<tr>
<td>natural resources management</td>
<td>see NRM</td>
</tr>
<tr>
<td>Natural Resources Management Ministerial Council (NRMMC)</td>
<td>37, 38</td>
</tr>
<tr>
<td>New South Wales (NSW)</td>
<td>1, 8, 10, 11, 75</td>
</tr>
<tr>
<td>Agriculture Dept/DPI</td>
<td>95, 98(n4), 99(n4)</td>
</tr>
<tr>
<td>crop production</td>
<td>23</td>
</tr>
<tr>
<td>deregulation</td>
<td>85, 95</td>
</tr>
<tr>
<td>entrepreneurship</td>
<td>104–106</td>
</tr>
<tr>
<td>environmental issues</td>
<td>149, 150, 151, 152</td>
</tr>
<tr>
<td>farm ownership</td>
<td>18</td>
</tr>
<tr>
<td>Farmers' Association</td>
<td>58, 62, 63, 64, 68</td>
</tr>
<tr>
<td>farmers' cooperatives</td>
<td>see MMC</td>
</tr>
<tr>
<td>forestry</td>
<td>28</td>
</tr>
<tr>
<td>innovation</td>
<td>141, 142, 143</td>
</tr>
<tr>
<td>land tenure</td>
<td>40, 42</td>
</tr>
<tr>
<td>Ricegrowers' Association of Australia</td>
<td>see RGA</td>
</tr>
<tr>
<td>sustainable practices</td>
<td>164, 169, 170</td>
</tr>
<tr>
<td>New South Wales Egg Corporation</td>
<td>85</td>
</tr>
<tr>
<td>New Zealand</td>
<td>36, 37, 51, 180</td>
</tr>
<tr>
<td>newspapers/magazines</td>
<td>127–128</td>
</tr>
<tr>
<td>NFF (National Farmers' Federation)</td>
<td>58, 59, 62–67, 90, 187</td>
</tr>
<tr>
<td>communications/publications</td>
<td>65</td>
</tr>
<tr>
<td>external committees</td>
<td>66</td>
</tr>
<tr>
<td>formation of</td>
<td>62–64</td>
</tr>
<tr>
<td>and grass-root/national level issues</td>
<td>64–65</td>
</tr>
<tr>
<td>Members' Council/committees</td>
<td>65–66</td>
</tr>
<tr>
<td>policy areas influenced by</td>
<td>66–67</td>
</tr>
<tr>
<td>structure/members/funding</td>
<td>64, 66</td>
</tr>
<tr>
<td>success of</td>
<td>67</td>
</tr>
<tr>
<td>taskforces</td>
<td>65, 66</td>
</tr>
<tr>
<td>nitrogen fertilizer</td>
<td>20, 21, 48, 81</td>
</tr>
<tr>
<td>Northern Territory (NT)</td>
<td>9, 11, 140–141</td>
</tr>
<tr>
<td>agricultural land</td>
<td>16</td>
</tr>
<tr>
<td>Cattleman's Association (NTCA)</td>
<td>58, 64, 68–69</td>
</tr>
<tr>
<td>environmental issues</td>
<td>148, 149, 150, 151, 152, 170</td>
</tr>
<tr>
<td>farm ownership</td>
<td>18</td>
</tr>
<tr>
<td>land tenure</td>
<td>40</td>
</tr>
<tr>
<td>NP (National Party, prev. Country Party)</td>
<td>54–56, 57, 71</td>
</tr>
<tr>
<td>NQ Dry Tropics NRM (QLD)</td>
<td>164–165</td>
</tr>
<tr>
<td>NRM (natural resources management)</td>
<td>37, 94, 95, 96, 147–148, 169, 170</td>
</tr>
<tr>
<td>see also</td>
<td>sustainable farming</td>
</tr>
<tr>
<td>NRMMC (Natural Resources Management Ministerial Council)</td>
<td>37, 38</td>
</tr>
<tr>
<td>nursery production</td>
<td>19, 154</td>
</tr>
<tr>
<td>oats</td>
<td>22, 23, 29</td>
</tr>
<tr>
<td>OECD (Organisation for Economic Cooperation and Development)</td>
<td>4</td>
</tr>
<tr>
<td>OH&amp;S (occupational health and safety)</td>
<td>62, 95</td>
</tr>
<tr>
<td>oilseeds</td>
<td>21, 22, 24, 77</td>
</tr>
<tr>
<td>olive growing</td>
<td>19, 155</td>
</tr>
</tbody>
</table>
Orange City (NSW) 163–164
Ord, River 11, 12
organic farming 108–109

Parkinsonia 167
Pastoral Act (1936) 163
pastoral leases 41
Pastoralists' Association of West Darling 64
pasture management 81, 141, 161, 163
PBEA (Pastoral Board of South Australia) 161, 163
PC (Productivity Commission) 45–47, 49, 51, 84, 117, 130, 131, 132
pests 5, 13, 48, 94, 147, 148, 150, 151, 154–157, 170
control 21, 22, 42, 47, 66, 165, 182–183
PHA (Plant Health Australia) 182, 183
phosphates 20, 21
PIEF (Primary Industries Education Foundation) 186, 187
pig farming 19, 27, 119, 125, 128, 157
Piggott, R. 85
PIMC (Primary Industries Ministerial Council) 37, 38, 125
Plant Health Australia (PHA) 182, 183
pollution 5, 12, 164, 173, 185
population growth 8, 14, 75, 81, 97, 188
pork production 19, 27, 119, 125, 128, 157
Porter, Bob/Dawn 169–170
Potard, G. 130, 132
potash 20, 21
potatoes 29, 43
poultry farming 19, 27, 125, 128, 153, 156
see also egg industry
price discrimination policies 76
price fluctuations 75, 181
Primary Industries Education Foundation (PIEF) 186, 187
private sector 50
and rural R&D 48, 112, 112, 113
production efficiency/improvements 29, 48
Productivity Commission see PC
PSE (producer support estimate) 4
public inquiries 45–47, 49
public opinion/understanding 170–172, 173, 186–187

QSC (Queensland Sugar Corporation) 87
quarantine 47, 48, 66, 182
Queensland (QLD) 8, 10, 11, 13, 139
agricultural land in 16
Agriculture Dept/DPI in 98–99(n4)
conservation in 197
crop production in 23
deregulation in 86–87
DERM (Dept of Environment and Resource Management) 161–162
entrepreneurship in 108–109
environment protection management in 161–162, 163
environmental issues in 149, 150, 151, 152
farm ownership in 18
innovation in 139, 143
land tenure in 40
sugar industry in 75, 86–87
vegetation management in 161–162
Queensland Sugar Corporation (QSC) 87
quotas 78, 80

R&D see research and development
Rabobank 183–184
rainfall 9, 12, 107, 141, 163
rangelands 163
RAS (Rural Adjustment Scheme) 36, 37, 88–91
Advisory Council 90
DRIS and 89
Exceptional Circumstances/Farm Productivity subsidies 89–90
Farm Household Support (FHS) scheme 90
first review of (1988) 89
re-establishment grants 89, 90
rehabilitation loans 89
second review of (1992) 89–90
third review of 90–91
reduced tillage farming 21
referenda 38
see also elections
rehabilitation grants 88
research and development (R&D) 7, 31, 44, 47, 61, 66, 94, 111-135, 144, 188
ACIAR and 123, 124-125, 133
and agricultural education 114, 128-129, 132
and agricultural extension see agricultural extension
challenges of 131-132, 133-134
Cooperative Research Centres see CRCs
CSIRO and 112, 113, 116, 125, 126, 133
government departments and 114-115, 115
international collaboration in 124-125
lessons from Australian experience 134-135, 192
public funding of 111, 112-114, 112, 113, 115, 131, 133, 134
RDC model see rural RDCs
state/territory governments and 114
universities/CRCs and 112, 113-114, 116, 123-124, 125, 126, 129
responsible government 44, 49
rice 19, 23, 25, 77, 140, 155
marketing 61
Ricegrowers' Association of Australia (RGA) 58, 60-61, 61, 64
membership/fees 61
organizational structure of 60, 61
six committees of 60
Strategic Plan 60-61
Ridley Corporation 64
RIRDC (Rural Industries Research and Development Corporation) 118, 119, 122, 184
risk management 93, 94, 101
rivers 11
Riverside Sanctuary (WA) 106-108
Roper River Landcare Group (NT) 167-168
Roseworthy Agricultural College 129
RRS (Rural Reconstruction Scheme) 88
Rudd, Kevin 160
runoff 20, 185
Rural Adjustment Scheme see RAS
rural incomes 16-18, 20, 23, 31, 81, 190
Rural Industries Research Act (1985) 117
Rural Industries Research and Development Corporation see RIRDC
rural politics 53-72
conservatism of 54
elections see elections
farmer organizations see farmer organizations
importance of 53
influence of 55-56, 71
and National Party 54-56, 57
political parties/pressure groups 54-55
rural RDCs (Research and Development Corporations) 116-123, 130, 142, 183, 184
Australian Government and 119-120, 121
autonomy of 120-121
boards of directors 120
co-investment of 112, 117, 133
collaborations 122-126, 133
funding arrangements 118-120, 131-132, 133
governance 120-122
IOCs and 118, 120, 121
John Kerin and 118
monitoring of 121-122
National Primary Industries Framework 125, 133
origin/evolution of 117-118
priority setting framework 120-121, 121
role of 117
sectoral approach of 118, 119
uniqueness of model 112, 116, 123, 133
Rural Research and Development Corporations, Council of see CRRDC
SAFF (South Australian Farmers' Federation) 58, 69
salinity of soil 12, 146, 147, 150, 152, 164, 168-169
SCoPI (Standing Council on Primary Industries) 38
Second World War 77, 78, 81
seed 13, 20, 20, 48
share-farming 43, 106–107
sheep farming 18, 19, 23–27, 150, 153, 155
environmental issues in 150, 153, 155, 169–170
export prices 28–29
meat production 27, 125
wool production 26, 27, 29
Sheepmeat Council of Australia 58, 64
Silkwood Drainage Board (QLD) 141
Singapore 180
skill shortage 184, 188
small-scale farms 44–45, 81, 98
Snowden, Phil/Lynda 143
Snowy Mountains 11, 12
soil 13, 141, 148, 154–157
erosion/salinity 12, 146, 147, 150, 152, 164, 168–169
sorghum 23
South Australia (SA) 8, 11, 13
deregulation in 85
environmental issues in 149, 150, 151, 152
land tenure in 40
pastoral management in 163
sustainable farming in 169
South Australian Farmers' Federation (SAFF) 58, 69
Soviet Union, former 72
soybean 23
SRDC (Sugar Research and Development Corporation) 142–143
Standing Council on Primary Industries (SCoPI) 38
state/territory government 35, 36–37, 38–39
storms 10
subsidies 3, 4, 6, 89–90, 191
sugar industry 19, 25, 75, 76, 119, 125, 141, 156
awards in 143
deregulation of 86–87, 88
Sullivan, Jim 140–141
summer crops 23
Sustainability, Environment, Water, Population and Communities Dept 153
sustainable farming 5, 7, 31, 61, 61, 66, 126, 145–173
barriers to 170, 171–172
Caring for our Country programme see CFC
and climate change 159–160
community level see Landcare movement
disposal of chemical waste 165–166
and environmental education 153
environmental issues addressed by see environmental issues
federal government and 153–160
and general public 170–172, 173
history of 147
and Indigenous people 158, 159, 167
industry and 165–166
lessons from Australian experience 172–173
livestock 166
local governments and 163–164
on-farm experience and 169–170
pastoral management 163
regional collaboration and 164–165
state governments and 161–163
success in 170–171, 172–173
Sustainable Planning Act (2009) 162
TAFE (technical and further education) colleges 128
tariffs 78, 79–80
Tasmania (TAS) 8
agricultural land in 16
environmental issues in 148, 149, 150, 151, 152
forestry in 28
land tenure in 40, 42
Tasmanian Farmers and Graziers Association (TFGA) 58, 64
taxation 66, 67, 80, 81, 97, 113
technologies, new 95, 143
telecommunications 49, 70, 114, 182
television 127, 133, 134
temperatures 9
TFGA (Tasmanian Farmers and Graziers Association) 58, 64
tobacco 77, 79–80
tourism 107–108, 165
Townsville (QLD) 163, 164
Index

training 63, 66, 67, 88, 89, 90, 132, 184, 188
see also education
transparency 45, 47, 50, 51, 68
transportation 48, 65, 70
tree-planting 67, 108, 152
see also forestry
triticale 22, 23
TTP (Trans-Pacific Partnership) Agreement 180–181

United States (US) 4, 6, 159, 180
urban population 44, 45, 50, 51, 72, 186–187
reconnecting with rural communities 187

vegetable growing 18, 19, 154
vegetation management 161–162
Vegetation Management Act (VMA, 1999) 162
Victoria (VIC) 8, 11, 13, 60
agricultural land in 16
environmental issues in 149, 150, 151, 152
farm ownership in 18
forestry in 28
land tenure in 40, 42
Victorian Farmers’ Federation 58, 64
viniculture 19, 29, 119, 155

wages see rural incomes
Warhurst, J. 55
water demands of agriculture 5, 20, 23, 29, 30, 35, 66, 103, 104–105, 125
and access/sharing/responsibility issues 60, 61
conservation/sustainable use 67, 139–140, 170, 185
Water for the Future programme 159
water policy 37, 38, 94
water quality 12, 126, 147, 148
weather 9–10, 23, 181–182, 187
adverse, and support payments 4, 94, 182
weeds 148, 149, 150, 154–157, 170
control of 165
welfare 49, 70, 72, 89, 90, 93–94, 97, 182
Western Australia (WA) 8, 10, 11, 13, 84
agricultural land in 16
crop production in 23
deregulation in 85, 90, 92–93
trepreneurship in 106–108
environmental issues in 148, 149, 150, 151, 152
farm ownership in 18
land tenure in 40
sustainable farming in 169–170
Western Australian Farmers Federation 58, 64
Western Plateau 10
wheat 13, 15, 22, 25, 107, 169
market deregulation of 83–84, 94
marketing 59–60, 80
price protection (1930s) 76–77, 81
price stabilization scheme for 78–79
prices 28–29, 76–77, 83–84
share-farmed 43, 106–107
stockfeed 84
storage of 60
world prices of 76, 79
Wheat Exports Australia 84
Whitlam government 74, 82, 94, 96
winemaking 76, 104–106, 119, 125
winter crops 22–23
wool industry 26, 27, 29, 117, 119, 125, 128
deregulation of 85–86
regulation of 80
world price of 86
Wool International (WI) 86
Wool Producers Australia 59, 64
WoolStock Australia Ltd 86
World trade Organization 65

Zhou, Z.Y. 58