
Index

- Achterbosch, T. 485, 490
Ackrill, R. 19, 205, 206
ACP (African, Caribbean and Pacific)
 countries 388, 393, 394–7, 489, 495, 497,
 499, 508, 512–16, 519, 526
Adenäuer, M. 486
advertising 273, 278
 see also food labelling requirements and
 CAP 2020 aims
Ærtebjerg, G. 224
affordability of food 450–51, 461
 see also food security
Africa
 ACP (African, Caribbean and Pacific)
 countries 388, 393, 394–7, 489, 495,
 497, 499, 508, 512–16, 519, 526
 Comprehensive Africa Agricultural
 Development Programme (CAADP)
 480
 ECOWAS Agreement 514
 Ethiopia, famines 469, 470, 481
 livestock exports from horn of Africa,
 concerns over 518–19
agri-environmental governance models under
 CAP 113–24, 532
 biodiversity gains, moderate 119
 cross-compliance commitment 116
 decoupled payments under Pillar II 118–19
 direct income transfers 116–17
 export subsidies, abolition of 117, 118
 and fiscal retrenchment 118–23
 Less-favoured Areas Directive (Directive
 75/268) 116
 multifunctionality in WTO 116–18
 neo-liberal model 117–18
 and New Public Management 121
 ‘payments for ecosystem services’ (PES)
 119–23
 ‘payments for ecosystem services’ (PES),
 entrepreneurialism aspect 121–2
 ‘payments for ecosystem services’ (PES),
 results-orientated payments 121
 restructuring policy and Mansholt Plan
 rejection (1968) 115
 rural development programmes 115–16
 scientific assessments, scarcity of 119
 Single Farm Payment and Mid-term Review
 117, 118
 state funding of green payments 114–15
 working lands, sustaining commitment to
 114–16, 118–19, 121, 123
 WTO Green Box compatibility 117
 see also environmental dimension of
 agriculture and CAP
agri-food
 EU as net exporter 446, 447
 trade with developing countries 487, 490
‘agricultural activity’ requirement and Direct
 Payments Regulation 422–4, 429–31
 see also direct payments
Aid for the Needy scheme 23
Albissini, F. 369
Alcohol Labelling Directive 273
 see also food labelling requirements and
 CAP 2020 aims
Alston, P. 467, 475, 476
Anania, G. 497
Anderson, K. 3, 404
animal breeds as PDO 292
 see also Quality Schemes for Agricultural
 Products and Foodstuffs Regulation
animal welfare legislation and public morality
 323–40, 534
 Battery Hen and Broiler Chicken Directives
 336, 338–9
 Cat and Dog Fur Regulation 336, 337–8
 CIWF (Compassion in World Farming) and
 animal exports 334–5
 export of live cattle 332–5
 Foot and Mouth Control Directive 335
 free movement of workers 331–2
 harmonizing EU legislation, importance of
 324, 333, 334, 335, 336
 Inuit hunt exception, and UN Declaration
 on the Rights of Indigenous Peoples
 324, 327
 Leghold Trap Regulation 336, 337
 morality in CJEU decisions 332–6
 organic food and farming 319
 public morality as factor in internal market
 decision-making 329–30
 seal products, Canadian and Norwegian
 litigation 325–9
 seal products, exceptions to products being
 placed on market 324
 Seal Products Regulation 324–9, 337, 534

- Seal Products Regulation, public morality definition 325–7, 330
- TBT Agreement 327
- third country animal welfare, legislating for 336–9
- UK Customs Consolidation Act 329–30
- WTO 323, 325–9
- see also* livestock
- Annan, K. 463, 464, 465
- antibiotics in animal farming, concerns over use of 309, 314, 319
- Antón, J. 86–110, 449
- apicultural aid schemes 68, 78, 79
- Applegate, J. 341
- arable land
- as ecological focus area (EFA) 428–9
 - extent 127
 - green measures to modify cropping 145–7
- Area of Outstanding Natural Beauty, UK 162, 163
- Areas Facing Natural Constraints (ANCs) 55, 56, 140, 192, 197
- Attias, A. 381
- Austria
- agri-environmental measures 240
 - agricultural employment 38
 - direct payments 31, 32, 35
 - food-based biofuels 216
 - insurance programmes 90
 - organic food consumption 240
- Bailey, D. 74
- Bainbridge, T. 8, 437
- Baldock, D. 125–49
- bananas
- and Cotonou Agreement 489, 495
 - EC – Bananas* 387, 388, 393–5, 397, 526
 - and Everything But Arms initiative 489, 515–16
 - import tariffs 441
 - and preferential import access 456, 497
 - see also* fruit and vegetable sector
- Baquet, A. 95
- Barfoot, P. 349
- Barnett, B. 96
- Barrett, C. 481
- Barrett Lydgate, E. 204, 215
- Bartels, L. 527
- Bartram, J. 223
- Basic Payment 54–5, 57, 58, 536, 537, 538
- see also* direct payment regime
- Baskin, Y. 243
- Basnett, Y. 517
- Bastiaensen, J. 120
- Batie, S. 121
- Battery Hen and Broiler Chicken Directives 336, 338–9
- Baudry, J. 134
- beef
- Beef Labelling Regulation 282–3
 - collective bargaining 81–2
 - and Cotonou Agreement 495
 - export subsidies 403, 502
 - intervention prices 399, 497, 498
 - and MacSharry reforms 397–8
 - and partial coupling 500, 501
 - support prices 19
 - tariff rate quotas 408, 409, 410, 445
 - veterinary clearance countries 491
 - see also* meat
- Belgium
- agricultural employment 7, 38, 480
 - direct payments 31, 32, 35
 - insurance programmes 90
 - nutrient surpluses 223
 - residence permits 331
- Bell, S. 226
- Bellivier, F. 375
- Bertheau, Y. 352
- Bertow, K. 485
- Better Training for Safer Food Programme 518
- Bianchi, D. 43, 50, 57, 75
- Bielza Diaz-Caneja, M. 90
- Binimelis, R. 350
- biodiversity
- and agri-environmental governance models 119
 - Biodiversity Broad Habitat Classification for semi-natural areas, UK 155–6, 162, 166, 167
 - concern, climate change response 174, 189, 190, 194
 - EU 2020 Biodiversity Strategy 254, 255
 - and wider ecosystems, effects on 127–8
 - see also* ecological focus area (EFA); environmental dimension of agriculture and CAP
- biofuels policy 203–21
- ‘advanced’ biofuels made from waste and algae 214, 216, 219
 - Biofuels Directive 206–7, 211, 212
 - cash crops in developing countries 456
 - climate change response 177, 182, 185
 - ‘climate friendly’ potential 203
 - cross-compliance criteria applicable to direct payments for agricultural feedstocks 209
 - and developing countries 456, 486, 491
 - direct payments and decoupling of income support as support for biofuels 212

- drivers for promotion of biofuels 211–15
 Energy Crop Payment removal 212, 213
 and energy security 204, 206, 211
 environmental dimension 130–31
EU Strategy for Biofuels 207, 211, 212
 food-based biofuels, removal of incentives
 216–20
 Fuel Quality Directive 207, 209–10, 215,
 216, 218
 GHG emissions reductions 208–9, 210, 211,
 213–14, 215–17, 219
 groundwater pollution claims 215
 income diversification opportunities 211
 indirect land-use change (ILUC) 205–6, 210,
 214–18, 219–20
 land conversion protection 209
 market building focus 207, 208, 210, 211
 National Renewable Energy Actions Plans
 (NEAPS) 208
 production target 207–8
 rapeseed production for biodiesel 214
 and Renewable Energy Directive 204, 207–8,
 209, 210, 211, 213, 215, 216, 217–19,
 522–3
 rural development, opportunities for
 sustainable 211
 set-aside scheme removal 212, 213, 214–15
 sugar production and support for
 development of biofuels industry
 212–13
 sustainability requirements 206–7, 208–9
 transport fuels, biofuels use in 206, 210, 214
- Biswas, A. 249
 Blair House Agreement 442–3
 Blandford, D. 131, 170–202, 320, 449, 457
 Blockx, J. 84
 Blumann, C. 75
 Bodiguel, L. 349, 365, 368–83, 449
 Boisvert, V. 119
 Bonnet Dunbar, M. 264
 Bonsmann, S. 273
 border protection and tariff erosion 444–9
see also food security
 Borgmeier, I. 270
 Boschert, K. 353
 Bourgeon, F. 376
 Bourguignon, F. 509
 Bowyer, C. 208, 215
 Boyle, S. 231
 Brenton, P. 515, 527
 Brink, L. 419
 Brüntrup, M. 516
 Buckwell, A. 13, 29
 buffer zones 145, 188, 237, 241, 253, 351,
 353–4, 365, 499
- Bulgaria 23, 31, 32, 35, 38
 Buller, H. 115–16, 240, 241
 Bureau, J. 214, 215, 485, 516–17
 Burrell, A. 406, 447
 Burton, R. 118
 Bustamante, M. 493
 Byrd-Bredbenner, C. 279
- Cafiero, C. 99
- Canada
 AgriInvest scheme 102
 ‘AgriStability’ payments 101–2
 Comprehensive Economic and Trade
 Agreement (CETA) with EU 445
 EU–Canada FTA 408–9
 seal products litigation 325–9
- Candel, J. 492
- CAP
 agri-environmental governance models *see*
 agri-environmental governance models
 under CAP
 animal welfare legislation *see* animal welfare
 legislation and public morality
 biofuels policy *see* biofuels policy
 climate change response *see* climate change
 response
 direct payments regime *see* direct payments
 regime
 environmental dimension of agriculture *see*
 environmental dimension of agriculture
 and CAP
 and European Consensus on Development
 implementation 512, 519–24, 528
 food security *see* food security
 GMO cultivation *see* GMO cultivation
 ‘greening’ direct payments *see* WTO Green
 Box and post-2013 CAP ‘greening’
 direct payments
 integrated water resources management *see*
 integrated water resources management
 and CAP
 organic food and farming *see* organic food
 and farming
 Quality Schemes *see* Quality Schemes for
 Agricultural Products and Foodstuffs
 Regulation
 risk management provisions *see* risk
 management provisions in CAP
 technofoods *see* technofoods and food safety
 policy
 water pollution *see* water pollution
- CAP 2020
 and climate change *see* climate change
 response
 direct payments regime 54, 55, 56–7

- environmental dimension of agriculture 144–8
- food labelling requirements *see* food labelling requirements and CAP 2020 aims
- integrated water resources management 251–7
- CAP *Agenda 2000* 19, 20, 21, 22, 24–5, 36, 79
 - climate change response 187, 193, 194–5
 - compensatory direct payments 487
 - Mid-term Review *see* Mid-term Review
- CAP and development 485–504, 531–2
 - agri-food trade with developing countries 487, 490
 - biofuels 456, 486, 491
 - CAP 2013 reforms and effects on developing countries 493–503
 - cash crop exports to EU and productive use of land in developing countries 490–91
 - compensatory direct payments, MacSharry Report and *Agenda 2000* reforms 487
 - consumer concerns, effects on developing countries 491
 - coupled payments and Direct Payments Regulation 501
 - crop diversification 493
 - cross-compliance conditions 499
 - decoupled payments and 2013 reforms 493, 499
 - decoupled payments, Fischler reforms and ‘Health Check’ (2009) 487, 497, 500–501
 - and direct payments distribution 493–4, 499–501
 - diversification of imports and exports in developing countries 487–8
 - domestic support effects on developing countries 497–501
 - ecological focus area (EFA) requirements 492, 493
 - EU policies, and agriculture in developing countries 486–93
 - Everything But Arms initiative and duty-free and quota-free access to least-developed countries (LDCs) 489, 495
 - export subsidies, effects of 488–9, 502–3, 513, 521
 - food imports and sustainability concerns 491
 - future global food production challenges 492–3
 - global food crisis effect on prices 492, 495
 - ‘green payments’ 493, 500
 - market access and 2013 reforms 494–7
 - milk quotas, elimination of 499
 - most-favoured-nation (MFN) applied tariffs 495, 496–7, 513, 516
 - organic farming 486, 490
 - past distorting impact of EU
 - overproduction, claims of 490–91
 - permanent grassland maintenance 493
 - poverty and food security, factors influencing 488
 - preferential market access to favoured groups of developing countries 489, 495–7
 - private storage aids (PSA) 498
 - Rural Development Regulation and
 - innovation encouragement 490, 493–4
 - sanitary and phytosanitary (SPS) standards as barriers to exports 354–5, 360, 491–2
 - seasonal tariffs on fruit and vegetables 494
 - Single Area Payment Scheme 501
 - Single CMO Regulation 498, 502
 - special safeguard (SSG) duties on specified agricultural products 494–5
 - sugar quotas, elimination proposal 498–9
 - total factor productivity decline 487
 - WTO AoA and agricultural tariffs 494–5, 502
 - and WTO’s category of Green Box domestic supports 490
 - see also* European Consensus on Development implementation
- CAP, Doha Round impact 387–411, 537
 - Agenda 2000* reform of CAP 397–403
 - Aggregate Measurement of Support (AMS) limits 392, 406
 - Bali Ministerial 404, 407–8
 - CAP 2013 reform 400–401
 - CAP ‘Health Check’ (2009) 400
 - CAP in WTO context 389–97
 - Community Preference over imported products 390
 - competition violation and trade law and *EC – Bananas* 393–4
 - competitiveness and market mechanisms 401, 405, 406–7
 - consumer concerns, inclusion of 399
 - cross-subsidization and *EC – Sugar* 396–7
 - Doha Agricultural Modalities 404–9
 - EC – Bananas* and *EC – Sugar* disputes 393–7
 - environmental protection 399, 400, 403, 405
 - EU Trade Policy Review* on tariff quotas 407
 - export subsidies 388, 390–96, 402, 403
 - food security as priority 401–2, 403, 404–5, 410, 460
 - free trade agreements and tariff rate quotas (TRQs) 408–9, 410–11
 - Generalized System of Preferences (GSP) and bilateral trade agreements 402–3

- MacSharry reforms 397–8
 and Mid-term Review 399–400
 and multifunctional nature of agriculture 399–400, 403
 post-colonial development issue and *EC – Bananas* 393
 private enterprise abuse of WTO mechanisms and *EC – Bananas* 394–5
 production-limiting programmes 398
 reduction commitment effects 404
 ‘sensitive products’ and tariff cuts, designation of 405–6, 407
 set-aside measures and sustainable production 399
 Single Payment Scheme 399–400
 sugar beet production surplus 395
 tariff agreement 390–91
 tariff rate quotas (TRQs), possible expansion of 406–9
 Uruguay Round Agreement on Agriculture (AoA) 16, 18, 388–92, 395–6, 404–7, 443, 444–5, 448–9, 531
see also WTO Doha Round
- CAP history, early 3–40
Agenda 2000 19, 20, 21, 22, 24–5, 36, 79
 agricultural employment decline 4, 6, 7
 Aid for the Needy scheme 23
 Berlin Wall collapse effects 17
 Buckwell Report 13, 29
 Central and Eastern European (CEE) liberalization effects and Fischler reforms 18–21, 28
 Ciołoş reforms 23, 24–5, 29, 82, 514
 cross-compliance measures 20
 direct payments 18, 19, 20–21, 22, 23, 24–5, 28–37
 earnings levels 3–4, 6, 7, 32, 33, 34
 ecological focus areas (EFAs) 24–5
 environmental conservation 18, 35–6
 EU budget revenue (1958–2008) 10
 European Agricultural Guidance and Guarantee Fund (EAGGF) 8
 European Exchange Rate Mechanism introduction (1979) 15
 export subsidies 16, 28
 first EEC enlargement effects (1973) 11–13
 food security issues 25
 Globalisation Adjustment Fund 23
 ‘Green Money’ and exchange rate variability 14–15
 guaranteed prices support 8
 harmonization approach 13–14
 ‘Health Check’ (2009) 21, 53
 income support concerns 24, 30, 31–2, 33–5
 innovation and R&D investment 4
 intensive livestock production 6
 intervention prices 9
 Maastricht Treaty and Cohesion Fund 18
 MacSharry reforms 16–18, 26–7, 28, 34, 53, 310–11, 392, 397–8, 441–2, 487, 532
 Mansholt Plan 10–11, 33–4, 115
 and market distortion 34–5
 Mid-term Review commitment 19–20, 21
 milk quotas 15, 21, 25
 modulation measures 20–21, 28
 Multiannual Financial Framework (MFF) 21–3, 28, 41
 Natura 2000 network 35–6, 128, 193, 199
 Nominal Rate of Assistance (NRA) 25–7, 29
 OECD Producer and Consumer Support Estimates 27–8
 overproduction problems and surpluses 10–11, 13, 15, 26
 producer co-responsibility (1980s) 15–16
 public goods provision 35, 36, 39
 redistribution options 36–7
 retirement grants and retraining 10
 rice support prices 21
 SAPARD (Special Accession Programme for Agriculture and Rural Development) 19
 set-aside measures 17–18
 Single European Act (1987) effects 16
 Single Payment Scheme 20, 21, 28, 35
 Stresa Conference 8, 390, 437, 441
 subsidies and marketing support 6, 7, 8
 sugar quotas 15
 tariff protection 6, 7, 8–9
 threshold prices 9
 UK net budgetary balance controversy (1984) 15–16, 19
 world commodity price spike of 1973–75 12–13, 26
- carbon capture 132, 177, 185, 200
see also climate change response
- Cardwell, M. 41–61, 207, 209, 211, 261, 375, 413, 417, 418, 438, 448, 479, 482, 531–9
- Caribbean
 ACP (African, Caribbean and Pacific) countries 388, 393, 394–7, 489, 495, 497, 499, 508, 512–16, 519, 526
 CARIFORUM Agreement 502–3, 512–13, 518
- Carrière, M. 377–8
- Carson, M. 263–4
- Carson, R. 308
- Cat and Dog Fur Regulation 336, 337–8
- catastrophic risks 98, 99, 102–3, 106, 107, 109, 110
 weather-related risks 95, 97
see also risk management provisions in CAP

- Central and Eastern European (CEE)
 liberalization effects 18–21, 28
- cereals
 biofuels from 216–17
 collective bargaining 81–2
 export subsidies 46, 403, 502
 fertilizer use 171
 intervention prices 400, 497, 498
 and MacSharry reforms 16, 17, 310–11, 392, 397–8
 maize authorization, GMO cultivation 342, 362
 reference thresholds 106
 rice *see* rice
 support prices 8, 9, 19, 51, 89, 399, 400, 497
 tariffs 482, 489, 495
- Cernat, L. 516
- CETA (Comprehensive Economic and Trade Agreement) with Canada 445
- CH₄ (methane) emissions *see under* emissions
- Charles, C. 214
- Charles, M. 214
- Charlton, A. 517, 518
- cheese supply and protected designations and geographical indications 72–3
see also dairy products
- Chowdhury, S. 488
- Cioloş reforms 23, 24–5, 29, 82, 514
- climate change
 ‘climate friendly’ potential, biofuels policy 203
 environmental dimension of agriculture and CAP 130–33
 and food security 439, 449, 456, 457
 legislation, and organic food and farming 320
- climate change response 170–202
 adaptation strategies 178–9, 186–7, 188, 189–92, 201
 Areas with Natural Constraints voluntary scheme 192, 197
 bio-energy production 177, 182, 185
 biodiversity concerns 174, 189, 190, 194
 CAP 2014–20, Commission’s proposals 189–92, 199
 CAP 2014–20, final agreement 192–9
 CAP 2014–20, limitations 199–201
 CAP *Agenda 2000* and agri-environmental measures 187, 193, 194–5
 CAP Mid-term Review 187–8
 capping of direct payments 198, 199
 carbon capture 132, 177, 185, 200
 CH₄ emissions 170, 171, 175, 176, 177, 181–2, 185, 186, 187
 CO₂ emissions 170, 171, 175, 176, 177, 178, 180, 181–2, 187, 188
 consumer choices and consumption patterns 179
 coupled payments 197–8, 199
 cover crops 185
 crop diversification proposal 189
 crop varieties, improved 185
 cross-compliance measures 187, 188, 189, 192, 193, 199
 direct payments’ reduction and redirection into innovation measures 191
 ecological focus areas (EFAs) 189, 190, 194, 199
 economic diversification 179
 EU agriculture as contributor to climate change 175–8
 extensive and intensive systems of crop and livestock production, choice between 180–84
 extreme weather events, effects of 171, 172, 174, 179
 Farm Advisory System (FAS) 187, 190–91, 196, 199, 201
 fire management 175, 181, 187
 good agricultural and environmental condition (GAEC) standards 187–8, 189, 193
 grazing land management and pasture improvement 185, 187
 ‘greening’ package 189, 190, 193, 194–5, 199, 201
 ‘Health Check’(2009) effects 188
 industrial production of agricultural inputs 178
 infrastructure improvements 179
 Integrated Pollution Prevention and Control Directive 188
 Intergovernmental Panel on Climate Change (IPCC) report on emissions from agriculture 176, 180–85
 knowledge transfer and innovation 195, 199
 land drainage effects 175
 land use management 176, 177, 178, 180–84, 185–6, 189, 193, 200, 201
 Less-favoured Areas support 188
 livestock management 176, 182, 185–6, 188, 200
 manure management 176, 182, 185
 mitigation strategies 179–87, 188, 189–92, 199–201
 N₂O emissions 170, 171, 175, 176, 181–2, 184–5, 186, 187, 190
 Natura 2000 areas 193, 199
 Nitrates Directive 188, 200

- nutrient management (fertilizers) 174, 175, 178, 180, 181, 182, 184–5, 187, 188, 190, 200, 201
 on-farm energy use 176, 177
 organic farming 184, 190, 200
 payments to young farmers, effects of 191, 197
 permanent grassland maintenance 190, 193, 199
 Pesticides Directive 189
 polluter pays principle 179, 201
 productivity and farm income effects 178–9
 public sector involvement 178, 179
 regionalization and payment distribution effects 191, 196–8
 renewable energy use 177
 restoration of degraded lands 182, 184, 187
 rice management 181, 187
 risk management tools 179, 188, 190, 195, 199
 rural development 190–91, 193, 194–5, 199–200
 set-aside measures 184, 186, 188, 194, 201
 Small Farmers' Scheme, potential negative impact 189, 191–2, 199
 soil erosion 174, 178, 190
 Soil Framework Directive proposal 189
 soil management 174, 185, 189, 190, 193
 sustainable development, importance of 186–7
 temperature rise effects 171–3
 training, advisory services and public information programmes 179, 186, 187, 190–91
 tree planting 185
 Water Framework Directive (WFD) 188–9, 193
 water management 173–4, 178, 181, 186, 187, 188–9, 201
 CO₂ emissions *see under* emissions
 Coble, K. 99
 Coleman, W. 17, 309, 397
 Collart Dutilleul, F. 370
 Collier, P. 451
 Colman, D. 15
 Community Preference principle 390, 438, 444–9, 459, 531–2
 Compassion in World Farming (CIWF) and animal exports 334–5
 compensation, and water resources management and pollution 242–3, 255–6
 competition rules and CAP, relationship between 73–4, 77, 82–4, 393–4
 competitiveness and market mechanisms 401, 405, 406–7
 CONCORD (European Confederation for Relief and Development) 508, 511
 consumers
 climate change response to choices and consumption patterns 179
 consumer concerns, effects on developing countries 491
 consumer concerns, inclusion in Doha Round 399
 and food poverty 461–2
 food provenance and safety concerns 287
 nanofoods information 380–83
 organic food consumption increase 306–7
 protection, and food labelling requirements 274, 277
 Cooper, T. 54, 119, 128, 132, 139, 239, 262, 415, 416, 431
 COPA (Committee of Professional Agricultural Organisations) 116, 118
 Cordes, K. 410
 Corti-Varela, J. 354
 Costa, C. 486
 Costanza, R. 243
 Cotonou Agreement 489, 495, 497, 508–9, 512, 515
 cotton
 coupled payments 501
 and MacSharry reforms 441
 production support 519–22
 US – Upland Cotton 420–21, 422, 423–4, 425, 427, 428, 429, 430, 431, 432
 Couldrick, L. 244
 coupled payments 197–8, 199, 501
 see also decoupled payments
 Courtis, C. 471
 Cowap, C. 245
 Cowburn, G. 270
 Craig, P. 64, 67
 Croatia 23, 38
 Crombez, C. 16
 crop insurance *see* insurance subsidies
 cross-compliance measures 20, 532, 533, 537
 biofuels policy 209
 climate change response 187, 188, 189, 192, 193, 199
 and developing countries 499
 direct payments regime 50
 environmental dimension 116, 138, 141, 143
 integrated water resources management 253, 254, 262
 water pollution 235–7, 241
 Cyprus 31, 32, 35, 38, 223
 Czech Republic 31, 32, 35, 38, 90

- Daily, G. 243
- dairy products
- cheese and protected designations and geographical indications 72–3, 291–2
 - Milk Package and collective bargaining 72–3, 77, 81–2
 - milk quotas 15, 21, 25, 69, 77, 499
 - milk support prices 19
 - price support 100
 - private storage aids (PSA) 498
 - reference thresholds 106
 - school milk schemes 69, 76, 78, 79
 - skimmed milk powder 15, 69, 80, 96, 106, 497, 498
- Dantin Report 77
- Darrow, M. 465, 466, 467
- Daugbjerg, C. 209, 210
- Davey, C. 119
- Davies, S. 276
- De Cicco, J. 204
- De Gorter, H. 4
- De Sadeleer, N. 345
- De Schutter, O. 410, 451, 477
- decoupled payments
- agri-environmental governance models under CAP 118–19
 - and biofuels policy 212
 - and CAP 2013 reforms 493, 499
 - environmental dimension 131, 136, 138, 141–2
 - Fischler reforms and ‘Health Check’ (2009) 487, 497, 500–501
 - food security 441–2, 454–5
 - and Mid-term Review 49–53, 54–5
 - WTO Green Box and post-2013 CAP ‘greening’ direct payments 414, 420–24 *see also* coupled payments; direct payments regime
- degraded lands, restoration of 182, 184, 187
- Deliberate Release Directive 342, 343–4, 347, 357–8, 359–60, 361, 363, 375
- Delmas-Marty, M. 370
- Demont, M. 353
- Denmark 6, 7, 31, 32, 35, 38, 223
- Desmarais, A. 451
- Destà, M. 438, 463–84, 491, 506, 519
- developing countries
- and CAP *see* CAP and development
 - food aid 460, 477–83
 - food security 443–4, 445, 455–7, 458
 - UN Millennium Development Goal on reduction of hunger 478, 480, 483
 - see also* European Consensus on Development implementation
- Devos, Y. 353
- Dhondt, N. 246
- Di Lauro, A. 368–83, 449
- Di Lucia, L. 206, 207, 214, 218, 221
- direct payments regime 41–61, 532, 536–7
- agricultural and non-agricultural earnings, distinguishing between 45
 - area-based allocations of entitlements 57–8
 - Areas with Natural Constraints, targeted payments 55, 56
 - Basic Payment *see* Basic Payment
 - climate change response 191, 198, 199
 - cross-compliance measures 50, 209
 - current regime 53–61
 - current regime, redistributive measures 56–9
 - degressivity obligation 58, 59
 - and developing countries 493–4, 499–501
 - European Commission, *Perspectives for the Common Agricultural Policy* 44, 45, 47, 48
 - European Commission, *The CAP towards 2020* 54, 55, 56–7
 - fair standard of living as social objective 43–6, 49–50, 51
 - Fischler reforms 18–21, 28, 45, 49–50, 51, 487, 497, 500–501, 535
 - funding allocation 41
 - ‘greening payment’ 24–5, 29, 35–6, 55, 311, 532 *see also* WTO Green Box
 - ‘Health Check’ (2009) reforms 53, 58, 71–2, 79
 - history 18, 19, 20–21, 22, 23, 24–5, 28–37
 - income support, new categories 55–6
 - income support rise 46–55
 - less-favoured area scheme (Directive 75/268) 47–8
 - market stabilization measures 44, 49–51
 - Mid-term Review 42, 43, 44, 45, 46–7, 49–53, 56
 - modulation measures 52–3, 57–8
 - Multiannual Financial Framework 41
 - OECD, *Farm Household Income Issues in OECD Countries* 44
 - public goods provision 42, 46, 50–51, 54–5
 - publication of information on beneficiaries of agricultural aid 42
 - Redistributive Payment 59
 - risk management toolkit 56, 106
 - Single Area Payment Scheme funding allocation 41
 - Single Payment Scheme 41–2, 46, 49, 50, 51, 56, 57
 - Single Payment Scheme, Green Box exemption 51–2, 55, 56

- Single Payment Scheme, potential weaknesses 51
 size of holding and financial strength 57–8
 subsidy levels received by large landowners, concerns over 41–2
 transitional aids to agricultural income 47, 48–9
 young farmers, targeted payments 55–6
see also decoupled payments; subsidies
- Direct Payments Regulation 254, 421–4, 427–8, 434, 501
- Disdier, A. 516
- diversification 179, 189, 211, 426–7, 434, 453–4, 493
- Dobbs, M. 137, 341–67
- domestic support *see* national involvement
- Dougan, M. 333
- Drinking Water Directive 136, 244
- drought and flood prevention 250, 258–60, 265–6
- Dunn, J. 123
- duty-free quota-free (DFQF)
 access to Least-Developed Countries (LDCs) 445, 458, 489, 495
 European Consensus on Development implementation 512–16, 526–7
- Dworak, T. 129
- Eaton, G. 42
- ecological focus area (EFA)
 arable land as 428–9
 CAP history 24–5
 climate change response 189, 190, 194, 199
 and developing countries 492, 493
 environmental dimension of agriculture 145–6
see also biodiversity
- economic aspects of farmer choice, GMO cultivation 350–51, 352, 365
- economic incentives, need for, integrated water resources management 262–3, 264
- Economic Partnership Agreements (EPAs) 512, 513–14, 518
- ‘ecosystem services’ approach, water management and pollution 243–5, 248, 250–51, 257–8, 261, 262–4
- ECOWAS Agreement 514
- Elbehri, A. 203
- Elliot, K. 527
- emissions
 CH₄ (methane) 170, 171, 175, 176, 177, 181–2, 185, 186, 187
 CO₂ 170, 171, 175, 176, 177, 178, 180, 181–2, 187, 188
- EU Roadmap for GHG emissions reduction 131, 132, 133
- N₂O 170, 171, 175, 176, 181–2, 184–5, 186, 187, 190
- reductions, biofuels policy 208–9, 210, 211, 213–14, 215–17, 219
- Endres, A. 353
- energy
 biofuels policy *see* biofuels policy
 fuel oil storage 227
 on-farm energy use 176, 177
 values (calories), and food labelling 272–3, 276
- Engel, P. 528
- environmental dimension of agriculture and CAP 125–49, 532–3
- agricultural drivers of environmental change 133–5
- arable cropping, green measures to modify 145–7
- Areas Facing Natural Constraints (ANCs) 140
- biodiversity and wider ecosystems, effects on 127–8
- biofuel policy 130–31
- CAP history 18, 35–6
- CAP towards 2020* 144–8
- climate change concerns 130–33
- cross-compliance measures 138, 141, 143
- decoupling measures 131, 136, 138, 141–2
- Doha Round impact 399, 400, 403, 405
- Drinking Water Directive 136, 244
- ecological focus areas (EFAs) 145–6
- emission reduction goals for 2020, importance of meeting 131
- environmental impact of agricultural production 126–35
- EU Roadmap for GHG emissions reduction 131, 132, 133
- European Agricultural Fund for Rural Development (EAFRD) 143
- GHG emissions 128, 129, 130, 131–2
- GMO cultivation 344, 346, 352, 358, 359–60
- ‘good agricultural and environmental condition’ (GAEC) requirement 141, 142, 144
- ‘greening’ within CAP, initial steps towards 140–48
- Habitats Directive 136
- ‘Health Check’ (2009) effects 142
- High Nature Value (HNV) agriculture 138, 143, 147
- incentives, use of 135–6, 137, 138–9, 144–5
- indirect land use change (ILUC) 130–31

- livestock sector, low stocking rate encouragement 147
- Mid-term Review effects 136, 141–2
- Natura 2000 network and protected semi-natural habitats 128
- Nitrates Directive 136, 137
- nitrogen use 128
- organic production systems 138, 143, 310, 311–12, 319
- penalties for breaches in greening requirements 147
- Pesticides Directive 137
- policy interventions 135–40
- policy interventions, implementation problems 137–8
- production and trade patterns, effects of 129–30, 133–6
- ‘public money for public goods’ argument 139
- River Basin Management Plans 129
- ruminant livestock reduction and CH₄ emissions 131–2
- rural development programmes 143
- Soil Framework Directive proposal 137
- soil and water pollution 126, 128–9, 136
- voluntary agri-environment incentive schemes 140
- Water Framework Directive 136
- Wild Birds Directive 136
- wildlife (farmland bird and butterfly species), decline in 128
- see also* agri-environmental governance models under CAP; biodiversity; ecological focus area (EFA)
- environmental impact assessment, UK *see* UK, environmental impact assessment application to intensive agriculture
- environmental protection, Doha Round impact 399, 400, 403, 405
- ‘equivalent’ practices, understanding of 424, 426
- Erjavec, E. 500
- Erlbacher, F. 66
- Estonia 31, 32, 35, 38
- Ethiopia, famines 469, 470, 481
- EU Trade Policy Review* on tariff quotas 407
- European Agricultural Fund for Rural Development (EAFRD) 143
- European Agricultural Guidance and Guarantee Fund (EAGGF) 8
- European Consensus on Development implementation 505–28
- ACP (African, Caribbean and Pacific) countries, links with 508, 512, 513–14, 515–16, 519, 526
- Better Training for Safer Food Programme 518
- biofuels and Renewable Energy Directive 522–3
- CARIFORUM Agreement 512–13, 518
- CONCORD (European Confederation for Relief and Development) 508, 511
- Cotonou Agreement and dialogue with developing countries 508–9, 512, 515
- cotton production support 519–22
- duty-free quota-free (DFQF) treatment 512–16, 526–7
- Economic Partnership Agreements (EPAs) 512, 513–14, 518
- ECOWAS Agreement 514
- EU Development Cooperation Policy, *Agenda for Change* 509–10, 525–6
- European Development Fund 517, 518, 519
- Everything But Arms (EBA) initiative and Generalised System of Preferences (GSP) 512, 514–16, 521, 526–7
- export subsidies 513, 521
- food price crisis and food security 522
- food security 522, 523, 524
- ‘Health Check’ (2009) and food security 524
- human rights focus 510, 525–6
- livestock exports from horn of Africa, concerns over 518–19
- market access 512
- Millennium Development Goals (MDGs) and poverty eradication 505–6, 509, 525
- most-favoured-nation provisions 513, 516
- OECD *Better Policies for Development* report 523
- OECD Development Assistance Committee review 511
- Policy Coherence for Development (PCD) 506, 507–11, 512, 517, 519–20, 521–2, 523, 524
- Policy Coherence for Development (PCD), monitoring mechanism 510–11
- Policy Coherence for Development (PCD), priority areas 508–9
- poverty eradication 505–6, 509, 512–13
- preference schemes, efficiency suggestions 527–8
- rules of origin constraints 517
- Single Farm Payment (SFP) introduction 519, 520
- sugar sector restructuring 519
- supply-side constraints on trade 516–17, 518–19
- WTO Agreement on Agriculture (AoA) and cotton production 520–22
- WTO Aid for Trade (AfT) 517–18, 519, 525

- WTO Enhanced Integrated Framework (EIF) and trade-related assistance to developing countries 517
see also CAP and development
- European Development Fund 517, 518, 519
- European Environment Agency (EEA) *Current Status and Future Challenges* report 260–61
- European Food Safety Authority (EFSA) 275, 344, 345–6, 357, 376, 381–2
- European Network for Rural Development 121
- European Veterinary Fund 89, 91, 108
- European Year of Water (2012) 249–50, 260
- eutrophication (algal blooms on surface waters) 223–4, 228, 229–30
see also water pollution
- Everything But Arms (EBA) initiative 489, 495, 512, 514–16, 521, 526–7
- export of live cattle 332–5
- export promotion as stimulus to increase farm security 460
- export subsidies
 agri-environmental governance models 117, 118
 CAP history 16, 28
 and developing countries 488–9, 502–3, 513, 521
 Doha Round impact 388, 390–96, 402, 403
 food security 442–3, 448–9, 460
 risk management provisions 106
 Single Common Market Organization (CMO) Regulation 76, 77, 79, 82
see also import levels; overproduction problems; preferential market access; tariffs
- exporters, major, organic food and farming 307
- extreme weather events 171, 172, 174, 179
see also climate change response
- factory farming concerns 309
- fair standard of living as social objective 43–6, 49–50, 51
- FAO (Food and Agriculture Organization) 318–19, 467, 473, 475
- Farm Advisory System (FAS) 187, 190–91, 196, 199, 201, 238–9, 253
- Faull, J. 74
- Fearne, A. 8
- Fennell, R. 8, 43, 44
- Ferreira Filho, J. 491
- fertilizer use 171, 230
 nutrient management 128, 174, 175, 178, 180–82, 184–5, 187, 188, 190, 200, 201
see also manure management
- Finco, A. 213
- Finland 31, 32, 35, 38
- fire management 175, 181, 187
- Fischler reforms 18–21, 28, 45, 49–50, 51, 487, 497, 500–501, 535
see also direct payments regime
- Fleurke, F. 345
- flood and drought prevention 250, 258–60, 265–6
- food additives, and nanotechnology 379–80
- Food and Agriculture Organization (FAO) 318–19, 467, 473, 475
- food aid 460, 477–83
- food distribution programme for most deprived persons 69–70
- Food Information Regulation 270–71, 273–5, 275–81, 380–81
- food labelling requirements and CAP 2020
 aims 269–84, 533
 additive use 271
 advertising and marketing of food
 regulation requirements 273, 278
 Alcohol Labelling Directive 273
 alcoholic strength of beverages 272
 Beef Labelling Regulation 282–3
 consumer protection 274, 277
 country of origin or place of provenance
 labelling 281–2
 development of food labelling rules 271–3
 energy values (calories) 272–3, 276
 European Food Safety Authority (EFSA)
 role 275
 fat, salt and sugar content 276, 280
 food business operator, implementation
 responsibilities 274
 Food Information Regulation 270–71, 273–5
 Food Labelling Directive (1979) 271–2
 Food Law Regulation 269, 274, 373, 374–5
 free movement of food 274, 279
 Gases and Sweeteners Directive 273–4
 harmonization of additional labelling
 formats 277
 health promoting properties based on
 reliable scientific evidence 278
 horsemeat controversy 282, 283
 ill-effects of poor diet, lack of legislative
 action to minimize 279
 labelling, first standardized legal definition
 272
 language stipulations 271
 mandatory particulars on all pre-packaged
 food labels 275
 meat labelling 281–3
 Nutrition and Health Claims Regulation
 280
 Nutrition Labelling Directive 272–3, 276

- nutrition labelling, Food Information Regulation 275–81
- obesity rates, concerns over 269–70, 275–6, 277–9, 283–4, 533
- ‘per portion’ reference 276, 280
- Phytosterols and Phytostanols Regulation 274
- protected designations of origin and geographical indications (PDOs and PGIs) 281
- provenance disclosures 270
- quantitative ingredient declarations (QUID) 272, 273
- Quinine and Caffeine Directive 273
- self-regulation in advertising sector, concerns over 278
- signpost labelling (traffic lights) 270, 277, 279–81
- ‘use by’, use of term 272
- White Paper on Obesity* 277–9
- see also* Quality Schemes for Agricultural Products and Foodstuffs Regulation
- Food Law Regulation 269, 274, 373, 374–5
- food safety, and technofoods *see* technofoods and food safety policy
- food security 437–62, 531–2, 533
 - and affordability 450–51, 461
 - Bali WTO Ministerial Conference, Agreement on Trade Facilitation 457–9
 - biofuels as cash crops in developing countries 456
 - Blair House Agreement and export subsidies 442–3
 - border protection and tariff erosion 444–9
 - CAP history 25
 - and CAP reforms 452–5
 - climate change effects 439, 449, 456, 457
 - and Community Preference principle 438, 444–9, 459, 531–2
 - Comprehensive Economic and Trade Agreement (CETA) with Canada 445
 - consumer security and food poverty 461–2
 - crop diversification or crop rotation comparison 453–4
 - decoupled payments 441–2, 454–5
 - definition 449–51
 - developing countries 443–4, 455–7
 - Doha Round impact 401–2, 403, 404–5, 410, 460
 - domestic support 441–2, 443, 459
 - ‘duty-free quota-free’ (DFQF) access to Least-Developed Countries (LDCs) 445, 458
 - energy security and biofuels 456
 - EU as net agri-food exporter 446, 447
 - European Consensus on Development implementation 522, 523, 524
 - European Partnership Agreements and Cotonou Agreement 444, 445
 - export promotion as stimulus to increase farm security 460
 - export subsidies 442–3, 448–9, 460
 - food aid abuse 460
 - food sovereignty 451–2
 - future policies 457–60
 - MacSharry reforms and Single Farm Payment (SFP) introduction 441–2
 - market access 440–41, 458, 459
 - Marrakesh Decision on Least-Developed and Net Food-Importing Developing Countries (NFIDC) 443–4
 - Mutual Recognition Agreement (MRA) and Novel Food Regulation 456
 - Non-Trade Barriers (NTB) 453
 - novel food from developing countries 455–6
 - poverty and food security in developing countries, factors influencing 488
 - preferential tariff regimes 445
 - Producer Subsidy Equivalent (PSE) and CAP subsidies 447–8, 453
 - public food stockpiles policies 458
 - re-coupling argument 454–5
 - and Regional Trade Agreements (RTAs) 445–6, 453, 455–6, 459
 - Transatlantic Trade and Investment Agreement (TTIP) 447
 - Transpacific Partnership Agreement (TPP) 446–7
 - UN Millennium Development Goal on reduction of hunger 473–4
 - WTO Agreement on Agriculture (AoA) rules 440–44
 - WTO Agreement on Agriculture (AoA) rules, tariffication process 440–41, 444–7, 458, 459
 - WTO Amber Box expenditures 441, 451, 452, 458
 - WTO Green Box and post-2013 CAP ‘greening’ direct payments 415–16
 - WTO Green Box programme 441, 442, 454, 458
- food-based biofuels, removal of incentives 216–20
 - see also* biofuels policy
- Foot and Mouth Control Directive 335
- France
 - agricultural employment 7, 38, 480
 - cheese PDO 292
 - direct payments 31, 32, 35

- disaster and tax deduction scheme 102
 food-based biofuels 216
 GM maize ban 356
 insurance programmes 90
 nitrate fertilization reduction 241–2
 Protected Geographical Indications (PGIs) 302–3
 water quality protection and Vittel mineral waters business 244
- Francois, J. 526
 free movement of food 274, 279
 free movement of workers 331–2
 Freibauer, A. 192
 Fritz, T. 485
 fruit and vegetable sector
 bananas *see* bananas
 E. coli outbreak, Germany (2011) 70, 84
 energy saving investment 187–8
 entry price system 82
 financial aid for producer organizations 79
 marketing standards 75, 80
 olive products *see* olive products
 producer organizations, recognition of 81
 reform (2007) 71–2
 school fruit schemes 69, 76, 78, 79
 seasonal tariffs 494
 fuel oil storage 227
 Fuel Quality Directive 207, 209–10, 215, 216, 218
 future challenges 319–20, 363–7, 457–60, 492–3
- Gabre-Madhin, E. 469
 Galeazzi, G. 508
 Gallezot, J. 516
 Gardner, B. 100
 Garnett, T. 132, 180
 Garzon, I. 62
 Gases and Sweeteners Directive 273–4
 Gasiorek, M. 516
 generic names 291–2
 see also Quality Schemes for Agricultural Products and Foodstuffs Regulation
 Georgieva, M. 19
 Gerasimchuk, I. 213, 214, 216, 218, 220
 Germany
 agricultural employment 7, 38, 480
 direct payments 31, 32, 35
 E. coli outbreak (2011) 70, 84
 insurance programmes 90
 nitrogen use 128
 nutrient surpluses 223
 tariffs on imported grains, early 6, 7
 GHG emissions *see* emissions
 Gill, P. 470
- Glauber, J. 99
 global food production concerns 320, 321, 492, 495
 global market growth, organic food and farming 304, 305
 Globalisation Adjustment Fund 23
 Glon, E. 353, 354, 365
 GMO cultivation 341–67
 admixture targets 349–50, 351, 353–4
 co-existence and freedom of choice 346–52
 co-existence and freedom of choice, legal framework 347–9
 co-existence versus domination 353–4
 Deliberate Release Directive 342, 343–4, 347, 357–8, 359–60, 361, 363
 domino effect reduction 353–4
 economic aspects of farmer choice 350–51, 352, 365
 environmental and human health protection 344, 346, 352, 358, 359–60
 EU Commission Co-existence Recommendation 342–3, 348–9, 350–52, 353, 354, 357, 364–5
 European Food Safety Authority (EFSA) role 344, 345–6, 357
 future of co-existence 363–7
 GMO exclusion as co-existence measure 354–6, 360, 364–6
 GMO exclusion as co-existence measure, voluntary exclusions 355–6, 365
 Greek compromise procedural limitation 358, 361–2, 363, 366, 367
 harmonized approach to policy 342, 343–4, 348, 358, 363–4, 366–7
 labelling thresholds 351–2, 353–4, 364–5
 maize authorization 342, 362
 national co-existence measures 348–52
 national prohibitions 342, 356, 357–63
 opt-out clause 357–63
 and organic produce 309, 313, 314, 315–16, 319, 351
 post-authorization controls and co-existence measures 345, 347–9, 366
 prior authorization for cultivation requirements 344–5, 347, 361
 Proposed Regulation (2010) 357–63
 protectionism concerns 348, 359
 safeguard clauses 346, 357, 366
 scientific uncertainty issues 345–6
 Technical Barriers to Trade (TBT) Agreement 355, 360
 and WTO sanitary and phytosanitary measures (SPS Agreement) 354–5, 360
 see also technofoods and food safety policy

- Gocht, A. 500
- Gohin, A. 105, 486
- ‘good agricultural and environmental condition’ (GAEC) requirement 141, 142, 144, 187–8, 189, 193
- Goodison, P. 489–90
- Gouel, C. 486
- Grabosky, P. 230
- Gradeva, K. 516
- grassland maintenance, permanent 190, 193, 199, 427–8, 493
- grazing land management and pasture improvement 185, 187
- Greece 31, 32, 35, 38, 90
- GMO cultivation 358, 361–2, 363, 366, 367
- olives PDO 292
- ‘green infrastructure’ provision, integrated water resources management 250–51, 254
- green measures to modify arable land cropping 145–7
- ‘greening component’ effects, water pollution 237–8, 242
- ‘greening’, initial steps towards 140–48
- ‘greening’ package, climate change response 189, 190, 193, 194–5, 199, 201
- ‘greening’ payments
- CAP history 24–5, 29, 35–6
- and developing countries 493, 500
- direct payments regime 24–5, 29, 35–6, 55, 311, 532
- organic food and farming 311
- state funding 114–15
- WTO Green Box *see* WTO Green Box and post-2013 CAP ‘greening’ direct payments
- greening requirements, penalties for breaches 147
- Grethe, H. 339
- Grossman, M. 230, 349, 365
- Groundwater Directive 231–2, 236–7
- groundwater pollution claims, biofuels policy 215
- Grunert, K. 270
- Gryson, N. 350, 352
- Gunningham, N. 230
- Guyomard, H. 50
- Häberli, C. 390, 401, 437–62, 491, 527
- Habitats Directive 136, 167, 242
- Halada, L. 127
- Hall, M. 204, 218, 220
- Hall, P. 124
- Hanley, N. 140
- Hardaker, J. 95
- harmonization approach
- animal welfare legislation 324, 333, 334, 335, 336
- CAP history 13–14
- food labelling requirements 277
- GMO cultivation 342, 343–4, 348, 358, 363–4, 366–7
- Hart, K. 126, 134, 145, 146, 148
- Harvey, D. 3–40, 42, 44, 46, 48, 51, 57, 60, 136, 187, 397, 442
- Harwood, J. 95
- Hassapoyannes, K. 131, 170–202, 320, 449, 457
- ‘Health Check’ (2009) 21, 53, 533
- climate change response 188
- Community co-financing 89, 90–91
- and compulsory modulation 142
- decoupled payments 487, 497, 500–501
- direct payments regime 53, 58, 71–2, 79
- food security 524
- health concerns
- GMO cultivation 344, 346, 352, 358, 359–60
- obesity rates 269–70, 275–6, 277–9, 283–4, 533
- health and safety information, organic food and farming 317
- Hecló, H. 124
- Hennessy, D. 95
- Heri, S. 460
- Hermitte, M. 347, 374
- Hewitt, A. 516
- High Nature Value (HNV) agriculture 138, 143, 147
- Hill, B. 44
- Hirsch, G. 65, 74
- Hirsch, M. 479, 519
- Hodge, I. 119
- Holden, P. 518
- Holder, J. 154, 168
- Holmes, J. 203, 207, 213
- Holzmann, R. 95, 96, 97
- hops 69, 72, 79, 80, 81
- Horridge, M. 491
- horsemeat controversy 282, 283, 533
- Howarth, W. 226, 246–66
- Howse, R. 328, 329, 336, 360
- Huber, R. 455
- Hungary 31, 32, 35, 38, 90, 356
- hunger reduction
- Millennium Development Goals *see* UN Millennium Development Goal on reduction of hunger
- see also* poverty
- Hunt, J. 348, 362
- Hynes, W. 518

- IFOAM (International Federation of Organic Agriculture Movements) 309, 313, 314, 318–19, 321
- Iglesias, A. 178
- import levels
and food aid 477–83
organic food and farming 307, 313–14, 316–18
preferential market access 402–3, 439, 445, 478, 489, 495–7, 527–8
sustainability concerns 491
see also export subsidies; tariffs
- incentive schemes 135–40, 144–5, 262–3, 264
- income diversification 179, 189, 211, 426–7, 434, 453–4, 493
- income support *see* decoupled payments; direct payments regime
- indirect land use change (ILUC) 130–31, 205–6, 210, 214–18, 219–20
- information provision
Farm Advisory System (FAS) 187, 190–91, 196, 199, 201, 238–9, 253
publication of information on beneficiaries of agricultural aid 42
risk management skills and awareness improvement 93–4, 97
see also training
- infrastructure investment 97, 179
- Ingersent, K. 16
- Innes, R. 96, 99
- innovation 4, 191, 195, 199, 490, 493–4
- insurance subsidies 89, 90–91, 97, 99, 102–3, 107
- Integrated Pollution Prevention and Control Directive 188
- integrated water resources management and CAP 246–66
CAP reform, *CAP towards 2020* 251–7
compensation payments 255–6
cross-compliance measures 253, 254, 262
definition 249
Direct Payments Regulation 254
economic incentives, need for 262–3, 264
‘ecosystem services’ approach 248, 250–51, 257–8, 261, 262–4
EU 2020 Biodiversity Strategy 254, 255
EU *Blueprint to safeguard Europe’s water resources* 247, 250–1, 260
European Environment Agency (EEA)
Current Status and Future Challenges report 260–61
European Year of Water (2012) 249–50, 260
farm advisory system 253
flood and drought prevention 250, 258–60, 265–6
Flood Risk Management Directive 258–9, 260
‘good status’ achievement obligation 248, 250, 256, 257–8, 261
‘green infrastructure’ provision 250–51, 254
Horizontal Regulation 253, 256
irrigation investments 256
and multifunctionality of agriculture 261–4
naturalization projects 264–6
non-commodity agricultural outputs as externalities or public goods 262–4
Pesticides Directive 252
qualitative water management 255, 257–8
quantitative water management 250, 256, 257, 258
resource efficiency promotion 254
Rio Earth Summit Conference, Agenda 21 249
River Basin Management Plans 250, 256, 257
Rural Development Regulation 255–6
‘slowing the flow’ approach 248
standards for good agricultural and environmental condition of land 253
statutory management requirements 253
sustainability focus 249, 250, 251, 253
Water Framework Directive (WFD) 247–8, 249–51, 252, 255–6, 257–60, 261
watercourse management regimes, environmental support for 248
WWF projects 265
- intellectual property rights 297–9
- intensive agriculture *see* UK, environmental impact assessment application to intensive agriculture
- Intergovernmental Panel on Climate Change (IPCC) 176, 180–85
- International Covenant on Economic, Social and Cultural Rights (ICESCR) 472–3, 474, 475
- intervention prices 9, 86, 87–8, 89, 100–101, 106, 399, 400, 497–8
- Ireland 31, 32, 35, 38, 84, 283
- Ismail, F. 517
- Italy 7, 31, 32, 35, 38, 90, 240
- Jack, B. 47, 222–45, 246, 264, 448
- Jackson, D. 155
- Jambor, A. 25, 29, 37
- Jasanoff, S. 370, 374
- Jayet, P. 50
- Jean, S. 389, 404
- Joly, P. 374
- Jones, G. 151
- Jorgensen, S. 95, 96, 97

- Josling, T. 13, 14, 15, 16, 18, 304–22, 441, 482
 Juet, E. 383
- Kaditi, E. 285
 Kay, A. 205, 206
 Keenan, A. 516
 Keenleyside, C. 134, 138, 240
 Keijzer, N. 510
 Kimura, S. 93, 103
 King, M. 508, 510
 Kireeva, I. 281, 285–303
 Klavert, H. 528
 Kleijn, D. 119
 Klein, G. 224
 Klein, K. 315
 Koch, B. 349
 Kretschmer, B. 205, 208, 210, 215
 Kuiper, M. 486
 Kutas, G. 203
- labelling
 food labelling requirements *see* food
 labelling requirements and CAP 2020
 aims
 GMO cultivation 315–16, 319, 351–2, 353–4,
 364–5
 organic produce 351
 technofoods and food safety policy 381, 382
 Laborde, D. 131, 527
 Lacroix, C. 376
 Lamy, P. 483
 land conversion protection, biofuels policy 209
 land use management, climate change response
 175, 176, 177, 178, 180–84, 185–6, 189,
 193, 200, 201
 Langille, J. 329, 336, 360
 language stipulations, food labelling 271
 Lanone, S. 377–8
 Latvia 31, 32, 35, 38
 Lavoie, J. 203
 Lee, M. 344, 348, 349, 350, 351, 374
 Lee, R. 203
 Leghold Trap Regulation 336, 337
 Lenaerts, K. 64, 66
 Lernoud, J. 304, 305, 306, 307
 Less-favoured Areas Directive 47–8, 116, 188
 Levidou, L. 353
 Lidskog, R. 347
 Lindert, P. 3
 Lithuania 31, 32, 35, 38
 Little, J. 500
 livestock
 animal welfare *see* animal welfare legislation
 and public morality
 diseases 108, 109, 110
 exports from horn of Africa, concerns over
 518–19
 intensive livestock installations 6, 152–3
 low stocking rate encouragement 147
 management, climate change response 176,
 182, 185–6, 188, 200
 poultry *see* poultry
 ruminant livestock reduction and CH₄
 emissions 131–2
 see also meat
 Lobley, M. 114, 115
 Lobstein, T. 276
 Lomé Conventions 393, 480, 512, 519
 Louwagie, G. 126
 Low, P. 526
 Loyat, J. 62
 Ludwig, R. 335
 Luxembourg 7, 31, 32, 35, 38, 223, 480
 Lyche-Solheim, A. 224
 Lyon Report on Agriculture and Rural
 Development 416
- Maastricht Treaty and Cohesion Fund 18
 McArthur, J. 465, 467
 McDonnell, A. 65
 McMahon, J. 18, 20, 43, 47, 49, 65, 203, 208,
 209, 213, 219, 246, 418, 419, 438, 476, 477,
 484, 495, 505–28, 531–9
 MacMaoláin, C. 269–84, 455
 MacSharry Reforms 16–18, 26–7, 28, 34, 53,
 310–11, 392, 397–8, 441–2, 487, 532
 McVittie, A. 499
 Madureira, L. 414, 415
 Mahé, L. 214, 215
 Mahieu, S. 371
 maize authorization, GMO cultivation 342,
 362
 Makanga, B. 372
 Malam, S. 280
 Malta 31, 32, 35, 223
 Maltby, E. 266
 Mansholt Plan 10–11, 33–4, 115
 manure management 230, 314, 319
 climate change response 176, 182, 185
 silage and slurry effluent 227, 231
 see also fertilizer use
 Marc, R. 372
 market access 440–41, 458, 459, 494–7, 512
 market building focus, biofuels policy 207, 208,
 210, 211
 market development
 organic food and farming 305–9, 312–15
 risk management provisions 97, 98, 99, 101,
 106
 market distortion, and CAP history 34–5

- market failure correction, WTO Green Box 433–5
- market imbalances 70–72, 74, 76–7, 81–2, 84
- market intervention, ‘safety net approach’ 68–9
- market stabilization measures, direct payments regime 44, 49–51
- Marrakesh Decision on Least-Developed and Net Food-Importing Developing Countries (NFIDC) 443–4
- Martínez-Zarzosa, I. 516
- Matthews, A. 22–3, 24, 25, 36, 55, 57, 59, 116, 123, 144, 148, 215, 218, 246, 358, 389, 412, 413, 416, 435, 438, 460, 484, 485–504, 516, 519
- Maxwell, D. 481
- meat
 - beef *see* beef
 - export subsidies 106, 403, 502
 - intervention prices 399
 - labelling 281–3
 - poultry *see* poultry
- private storage aids (PSA) 498
- reference thresholds 106
- special safeguard (SSG) duties on chicken and turkey products 495
- see also* livestock
- Meijerink, G. 485
- Meléndez-Ortiz, R. 418, 419, 442
- Melyukhina, O. 103
- Member’s Aggregate Measurement of Support (AMS), WTO Green Box 418–19, 458
- Merten-Lentz, K. 371
- methane (CH₄) emissions 170, 171, 175, 176, 177, 181–2, 185, 186, 187
- Meuwissen, M. 90
- Meyer, R. 133
- Mid-term Review
 - CAP history 19–20, 21
 - direct payments regime 42, 43, 44, 45, 46–7, 49–53, 56
 - and Doha Round 399–400
 - environmental dimension of agriculture 136, 141–2
 - and Single Farm Payment 117, 118
- milk *see under* dairy products
- Millennium Development Goals *see* UN Millennium Development Goal on reduction of hunger
- mineral waters 289–90
- mitigation strategies, climate change response 179–87, 188, 189–92, 199–201
- Mitra, S. 482
- modulation measures 20–21, 28, 52–3, 57–8, 198, 199
- Mögele, R. 66, 75, 79
- Monetary Compensatory Amounts (MCAs) 88
- morality, and animal welfare legislation *see* animal welfare legislation and public morality
- Morris, J. 266
- Morris, S. 341
- Morrow, K. 372
- Moschini, G. 95, 352
- most-favoured-nation (MFN) provisions 495, 496–7, 513, 516
- Multiannual Financial Framework (MFF) 21–3, 28, 41
- multifunctionality of agriculture 116–18, 261–4, 399–400, 403, 433–5, 535–6, 538
- Muradian, R. 119–20, 122
- Musser, W. 95
- mutual funds, risk management provisions 97, 107–9
- Mutual Recognition Agreement (MRA) and Novel Food Regulation 456
- N₂O emissions *see under* emissions
- nanotechnology *see under* technofoods and food safety policy
- Narula, S. 471
- national involvement
 - animal and plant health measures, risk management provisions in CAP 89
 - effects on developing countries 497–501
 - food security 441–2, 443, 459
 - GMO co-existence measures 348–52
 - GMO cultivation prohibition 342, 356, 357–63
 - organic food and farming standards 312, 313
 - water pollution and EU water protection directives 223, 225–6, 230–31, 237, 241
 - WTO Green Box and post-2013 CAP ‘greening’ direct payments 419–21, 427, 429, 431–5
- National Renewable Energy Actions Plans (NEAPS) 208
- Natura 2000 network 35–6, 128, 193, 199
- naturalization projects, integrated water resources management 264–6
- Neslen, A. 217
- Netherlands
 - agricultural employment 7, 38, 480
 - catastrophic risks, dealing with 103
 - direct payments 31, 32, 35
 - insurance programmes 90
 - intensive livestock production 6, 9
 - Livestock Veterinary Fund 103
- New Public Management 121
- Nielsen, C. 404
- Niggli, U. 321, 322

- Nihoul, P. 370, 371
 Nikpay, A. 74
 nitrates
 concentrations in drinking waters and ‘blue baby syndrome’ 223
 Nitrate Vulnerable Zones 228–31, 236, 237, 241–2
 see also nutrient management
 Nitrates Directive 136, 137, 188, 200, 228–31, 236, 237, 242
 nitrogen-fixing crops 429
 Noiville, C. 374, 375
 Nominal Rate of Assistance (NRA) 25–7, 29
 non-commodity agricultural outputs as
 externalities or public goods, integrated water resources management and CAP 262–4
 non-commodity output incentives, WTO
 Green Box and post-2013 CAP ‘greening’ direct payments 433–4
 non-food outputs 535–6, 537, 538
 Non-Trade Barriers (NTB), food security 453
 Norway, seal products litigation 325–9
 novel food from developing countries, food security 455–6
 Novel Food Regulation, technofoods and food safety policy 379, 383
 Nowicki, P. 486
 Núñez Ferrer, J. 285
 nutrient management 128, 174, 175, 178, 180, 181, 182, 184–5, 187, 188, 190, 200, 201
 national nutrient surpluses 223
 see also fertilizer use; nitrates
 Nutrition and Health Claims Regulation 280
 nutrition labelling *see under* food labelling requirements and CAP 2020 aims
 obesity rates, concerns over 269–70, 275–6, 277–9, 283–4, 533
 O’Connor, B. 286, 387–411, 502
 O’Donoghue, E. 99
 OECD
 Better Policies for Development report 523
 Development Assistance Committee review 511
 Farm Household Income Issues in OECD Countries 44
 multifunctionality and WTO Green Box 433–4, 435
 Producer and Consumer Support Estimates 27–8
 Producer Subsidy Equivalent (PSE) 447–8
 oenology *see* wine sector
 O’Gorman, R. 323–40
 olive products 502
 collective bargaining 81–2
 export subsidies 502
 Greek PDO 292
 private storage aids (PSA) 498
 production and marketing support 72, 79
 reference thresholds 106
 see also fruit and vegetable sector
 Olper, A. 20
 Oppermann, R. 127, 138
 Oppewal, J. 510
 Orden, D. 442
 ordinary legislative procedure (OLP) extension 66
 organic food and farming 304–22, 533–4
 Action Plan (2004) 313
 Action Plan (2014) 314–15
 Agreement on Organics with US 318–19
 animal welfare standards 319
 antibiotics in animal farming, concerns over use of 309, 314, 319
 biotech products, concerns over 308–9
 certification and conversion costs 307, 310, 311–12, 313, 314–15, 318–19, 320
 classification problems and trade rules 316–18
 climate change response 184, 190, 200, 320
 consumer increase 306–7
 and developing countries 486, 490
 environmental concerns 138, 143, 310, 311–12, 319
 EU organic logo 313, 314
 exporters, major 307
 factory farming concerns 309
 FAO and WHO CODEX standards 318–19
 future challenges 319–20
 global food production concerns 320, 321
 global market growth 304, 305
 GM crops, concerns over 309, 313, 314, 315–16, 319, 351
 ‘greening’ of direct payments 311
 health and safety information and consumer choice 317
 IFOAM (International Federation of Organic Agriculture Movements)
 standards 309, 313, 314, 318–19, 321
 import levels and regulation 307, 313–14, 316–17
 imports and ‘like products’ 317–18
 land area devoted to organic farming 305–6
 MacSharry reforms 310–11
 manure from intensive livestock operations, restricted use 314, 319
 market development and growth in EU 305–9
 market regulation 312–15

- national standards 312, 313
 origins 307–8
 post-2013 CAP 311–12
 product standards and process standards,
 distinguishing between 316
 production costs 310
 public and private standards, distinction
 between 317, 318
 rural development programmes (RDP)
 311–12
Silent Spring (Carson) 308
 Single Farm Payment eligibility 311
 trade rules and organic foods, links between
 316–18
 US regulation 315–16
 and WTO Green Box 434
 overproduction problems *see* surpluses
 Özden, C. 527
- Paarlberg, R. 480
 Pacific, ACP (African, Caribbean and Pacific)
 countries 388, 393, 394–7, 489, 495, 497,
 499, 508, 512–16, 519, 526
 Padella, M. 213
 Page, S. 516
 Palmer, J. 203, 204, 219
 Paracchini, M. 147
 Patrick, G. 95
 payment for ecosystem services (PES) 119–23,
 532, 533
 payment to young farmers 55–6, 191, 197, 417,
 421
 PDOs (Protected Designations of Origin) *see*
under Quality Schemes for Agricultural
 Products and Foodstuffs Regulation
 Pe'er, G. 56
 penalties for breaches in greening requirements
 147
 Perera, P. 224
 permanent grassland maintenance 190, 193,
 199, 427–8, 493
 Perrot-Maitre, D. 244
 Persson, M. 527
 Pesticides Directive 137, 189, 232–4, 235–6,
 238, 252
 Petit, Y. 62
 PGIs (Protected Geographical Indications) *see*
under Quality Schemes for Agricultural
 Products and Foodstuffs Regulation
 Phelan, D. 332
 Phelps, J. 54
 phosphorous, diffuse pollution by 230–31
 Phytosterols and Phytosterols Regulation 274
 plants
 cereals *see* cereals
 fruit and vegetable sector *see* fruit and
 vegetable sector
 plant health and pest risk measures 89, 108,
 109, 110
 varieties as PDO 292
 Plieninger, T. 115
 Pogge, T. 466, 471, 475–6
 Pokrivcak, J. 5
 Poláková, J. 128, 138
 Poland 31, 32, 35, 38, 241
 Poli, S. 358, 365
 Policy Coherence for Development (PCD) 506,
 507–11, 512, 517, 519–20, 521–2, 523, 524
 Pollack, M. 346
 Pollan, M. 433
 pollution
 biofuels policy and groundwater pollution
 claims 215
 and environmental dimension of agriculture
 126, 128–9, 136
 polluter pays principle 179, 201
 water *see* water pollution
 polytunnels as temporary structures 160–62
 Portugal 31, 32, 35, 38, 90, 292
 Potter, C. 113–24
 poultry
 Battery Hen and Broiler Chicken Directives
 336, 338–9
 export subsidies 76, 502
 mobile poultry sheds 163, 165
see also livestock
 poverty
 eradication 505–6, 509, 512–13
 food security 488
 and hunger reduction *see* UN Millennium
 Development Goal on reduction of
 hunger
 precautionary principle 166, 229–30, 372–3
 preferential market access 402–3, 439, 445, 478,
 489, 495–7, 527–8
see also export subsidies; import levels;
 tariffs
 prices
 global food crisis effect 492, 495
 market price support reduction 487
 price hedging contracts 103
 stabilization measures 100–101, 106
 Prins, A. 486
 private enterprise abuse of WTO mechanisms
 394–5
 private storage aid (PSA) 78–9, 106, 498
 privatization, ecosystem services and water
 pollution 243–5
 producer organizations and associations 71–2,
 74, 81–2

- Producer Subsidy Equivalent (PSE) 447–8, 453
 productivity, climate change effects 178–9
 Protected Designations of Origin (PDOs)
 and Protected Geographical Indications
 (PGIs) *see under* Quality Schemes for
 Agricultural Products and Foodstuffs
 Regulation
 protectionism concerns 348, 359, 435–6
 public food stockpiles policies 458
 see also food security; surpluses
 public goods
 and CAP history 35, 36, 39
 and direct payments regime 54–5
 farmers as providers of 414–16
 non-commodity agricultural outputs as
 262–4
 ‘public money for public goods’ argument
 139
 social benefits from 415–16
 public intervention mechanisms 78–9
 public morality, and animal welfare legislation
 see animal welfare legislation and public
 morality
 publication of information on beneficiaries of
 agricultural aid 42

 quality production and sustainability transfer
 to developing countries 480
 Quality Schemes for Agricultural Products and
 Foodstuffs Regulation 285–303
 agricultural products intended for human
 consumption, inclusion of 289
 animal breeds as PDO (Protected
 Designations of Origin) 292
 consumer concerns over food provenance
 and safety 287
 EU Commission Green Paper, *Agricultural
 product quality* 287
 generic names 291–2
 industrial goods, lack of inclusion 289
 intellectual property rights 297–9
 mineral waters, lack of inclusion 289–90
 misuse of PGIs 297
 Optional Quality Terms 298–9
 packaging criteria 294
 PDOs (Protected Designations of Origin)
 286–7, 288–9, 290–92
 PGIs and PDOs, distinction between 290–91
 PGIs and PDOs, protection level 296–8
 PGIs and PDOs, registration application
 and product specification 292–6,
 300–302
 PGIs (Protected Geographical Indications)
 286–7, 287, 288–9, 291–2
 plant varieties as PDO 292
 product scope 289–90
 simplification programme 287–8
 spirit drinks and PGIs and PDOs 289, 301–2
 third-country names and registration 293
 trademarks and GIs, similarities between
 286, 297
 Traditional Specialities Guaranteed (TSGs)
 286, 288–9, 298–9
 wines and PGIs and PDOs 289, 299–301
 WTO obligations 286–7, 293
 see also food labelling requirements and
 CAP 2020 aims
 quantitative ingredient declarations (QUID)
 272, 273
 see also food labelling requirements and
 CAP 2020 aims
 Quaye, W. 452
 Quinine and Caffeine Directive 273
 Quinn, G. 475
 quotas
 duty-free quota-free (DFQF) *see* duty-free
 quota-free (DFQF)
 EU Trade Policy Review on tariff quotas 407
 milk quotas 15, 21, 25, 69, 77, 499
 Single Common Market Organization
 (CMO) Regulation 69, 77, 80–81
 sugar quotas 15, 69, 77, 80–81, 395–6, 498–9
 tariff rate quotas (TRQs) 406–9, 410–11,
 441, 445
 see also surpluses

 Rahaman, M. 249
 Ramos, M. 486
 Randour, F. 343
 rapeseed production for biofuels 209, 214
 Rausser, G. 4
 redistributive measures 36–7, 56–9
 see also direct payments
 reference thresholds 106
 Regional Trade Agreements (RTAs), and food
 security 445–6, 453, 455–6, 459
 regionalization and payment distribution
 effects 191, 196–8
 Renewable Energy Directive 204, 207–8, 209,
 210, 211, 213, 215, 216, 217–19, 522–3
 renewable energy use 177
 Renn, O. 97
 restoration of degraded lands 182, 184, 187
 retirement grants and retraining 10
 rice
 and Everything But Arms initiative 489, 512,
 515–16
 export subsidies 502
 and foreign aid 501
 and GHG emissions 170, 181, 187

- intervention prices 400, 497, 498
 - and Mid-term Review 21
 - price support 100
 - reference thresholds 106
 - see also* cereals
- Rickard, S. 416
- right to food under international law 470–76
- risk analysis, technofoods and food safety
 - policy 370–77
- risk management provisions in CAP 86–110
 - animal and plant health measures and national government schemes 89
 - catastrophic risks 98, 99, 102–3, 106, 107, 109, 110
 - and climate change response 179, 188, 190, 195, 199
 - counter-cyclical payments (CCP) 89, 101–2
 - crop insurance and national budgets 89
 - direct payments and entitlements as risk management tool 56, 106
 - export subsidies 106
 - false perceptions 92–4
 - farmer strategies and responsibilities 96, 98, 99
 - futures contracts and price risk 96, 97
 - government policies and rationale 96–9
 - ‘Health Check’ (2009) legislation and Community co-financing 89, 90–91
 - history of 87–91
 - income stabilization policies 101–2, 107
 - income support concerns 93
 - income tax system and information asymmetries 101
 - index insurance potential 103
 - infrastructure investment 97
 - insurability of risks 95, 96, 97
 - insurance subsidies 89, 90–91, 97, 99, 102–3, 107
 - insurance subsidies, effect on specialization 99
 - intervention prices 86, 87–8, 89, 100–101, 106
 - investment concerns 92
 - livestock diseases and plant pest risk management 108, 109, 110
 - market effects 97, 98, 99, 101, 106
 - Monetary Compensatory Amounts (MCAs) and intra-EU trade 88
 - mutual funds 97, 107–9
 - normal risks 98, 99
 - output price risks 95
 - policy transfers from risk-related policies 88–9
 - post-2013 CAP 105–10
 - price hedging contracts 103
 - price intervention system 106
 - price stabilization measures 100–101
 - price support and price stabilization focus 87–8
 - price volatility concerns 92–3
 - reference thresholds (reference prices) 106
 - risk management skills and awareness improvement 93–4, 97
 - risk management toolkit 107–8
 - risk-layering approach 98–9
 - rural development funds, use of 107
 - Single Payment Scheme and producer support transfers 89
 - systemic risks 95, 97–8
 - tax and social security systems and income stabilization 102
 - training and information needs 99, 109–10
 - weather-related risks 95, 97
 - WTO Agreement on Agriculture 103–5
 - WTO Green Box 107, 108, 109
 - river basin approach, water pollution 224–5, 231
 - River Basin Management Plans 129, 250, 256, 257
 - Rizzioli, S. 379
 - Robinson, M. 471
 - Rodgers, C. 52, 150–69, 252, 479
 - Romania 23, 31, 32, 35, 38
 - Rome Declaration on World Food Security* 449, 465, 473
 - Roqueplo, P. 374
 - Rose, V. 74
 - Rowcroft, P. 264
 - rural development
 - agri-environmental governance models 115–16
 - biofuels policy and sustainability opportunities 211
 - climate change response 190–91, 193, 194–5, 199–200
 - European Agricultural Fund for Rural Development (EAFRD) 143
 - funds, use of, and risk management provisions 107
 - Lyon Report on Agriculture and Rural Development 416
 - and organic food and farming 311–12
 - Rural Development Regulation 238, 255–6, 490, 493–4
 - Ryan, L. 205
 - safeguard clauses, GMO cultivation 346, 357, 366
 - ‘safety net approach’ to market intervention mechanisms 68–9

- sanitary and phytosanitary (SPS) standards 354–5, 360, 491–2
- SAPARD (Special Accession Programme for Agriculture and Rural Development) 19
- Sarmadi, D. 362
- Schmid, O. 416
- school milk and fruit schemes 69, 76, 78, 79
- Schulteis, A. 485
- Schwartz, G. 118
- science-based approach, technofoods 375–7
- scientific assessments, scarcity of 119
- scientific uncertainty issues, GMO cultivation 345–6
- Scott, J. 344, 355
- Seal Products Regulation 324–9, 337, 534
- seasonal tariffs 494
see also fruit and vegetable sector; tariffs
- Sébastien, M. 442
- Sen, A. 463, 468, 469–70, 478
- 'sensitive products' and tariff cuts, designation of 405–6, 407
- Séralini, G. 372
- set-aside measures
 biofuels policy 212, 213, 214–15
 CAP history 17–18
 climate change response 184, 186, 188, 194, 201
 and sustainable production 399
- Severini, S. 53
- Sewage Sludge Directive 234, 235
- Shaffer, G. 346
- Sharman, A. 203, 207, 213
- Sheingate, A. 114
- Shine, A. 270
- signpost labelling 270, 277, 279–81
see also food labelling requirements and CAP 2020 aims
- silage and slurry effluent 227, 231
see also manure management
- silkworms 68, 69, 72, 80, 81
- Sims, R. 203
- Sinabell, F. 431
- Sinclair, D. 230
- Single Area Payment Scheme 41, 501
- Single Common Market Organization (CMO) Regulation 62–85, 535
 adoption of delegated acts, empowerment for 76, 85
 commercial relations, rebalancing 70–71
 competition rules and CAP, relationship between 73–4, 77, 82–4
 competition rules, temporary suspensions and severe market imbalances 83–4
 demarcation of measures 66–7
 and developing countries 498, 502
 as EC Regulation 1234/2007 replacement 63, 67, 68, 70, 71–2, 73, 75, 76
 EU's legal and institutional framework governing agricultural markets 64–7
 export refunds regime 76, 77, 79, 82
 food distribution programme for most deprived persons 69–70
 global liberalization of agricultural commodity markets, effects of 71
 Lisbon Treaty and distinction between delegated and implementing acts 67–8
 market imbalances and exceptional market support measures 70–71, 76–7, 84
 market imbalances and strengthening of cooperatives and associations 71–2, 74, 81–2
 market intervention 78–80
 marketing standards and quality of agricultural products 75, 77
 Milk Package and collective bargaining 72–3, 77, 81–2
 milk quota regimes 69, 77
 ordinary legislative procedure (OLP) extension 66
 private storage aid 78–9, 106
 producer organizations and associations 71–2, 74, 81–2
 public intervention mechanisms 78–9
 quota regimes 69, 77, 80–81
 reform discussions (2013) 68–85
 reform discussions (2013), Commission proposal 68–76
 'safety net approach' to market intervention mechanisms 68–9
 school milk and fruit schemes 69, 76, 78, 79
 sugar quota regimes 69, 77, 80–81
 trade with third countries 75–6, 82
 wine production and transitional planting rights regime 69
 wine sector, five-year national support schemes 80
 wine sector, maintenance of vineyard register 81
- Single European Act (1987) effects 16
- Single Payment Scheme 532, 536, 537, 539
 CAP history 20, 21, 28, 35
 direct payments regime 41–2, 46, 49, 50, 51–2, 55, 56, 57
 Doha Round impact 399–400
 European Consensus on Development implementation 519, 520
 food security 441–2
 and Mid-term Review, agri-environmental governance models 117, 118

- organic food and farming 311
- and producer support transfers 89
- size of holding and financial strength 57–8
- Skees, J. 96
- skimmed milk powder 15, 69, 80, 96, 106, 497, 498
 - see also* dairy products
- Skinner, I. 205, 210
- Skud, T. 453
- Slovakia 31, 32, 35, 38
- Slovenia 31, 32, 35, 38
- slurry *see* manure management
- Small Farmers' Scheme 189, 191–2, 199
- Smith, F. 51, 55, 389, 412–36, 442, 450
- Smith, P. 173, 176–7, 181–3, 200–201, 493
- Snell, C. 372
- social acceptability, technofoods and food safety policy 374–5
- social benefits from public goods 415–16
 - see also* public goods
- social objective, fair standard of living as 43–6, 49–50, 51
- soil erosion 126, 174, 178, 190
- Soil Framework Directive proposal 137, 189
- soil management, climate change response 174, 185, 189, 190, 193
- soil pollution 126, 128–9, 136
 - see also* pollution
- Solomon, S. 170
- Sorda, G. 203, 208, 212
- Spaak Report 43, 531
- Spain
 - agricultural employment 38
 - animal welfare and slaughterhouse concerns 333
 - direct payments 31, 32, 35
 - insurance system 90, 99, 102–3
- special safeguard (SSG) duties on specified agricultural products 494–5
- specialization, insurance subsidies, effect on 99
- spirit drinks and PGIs and PDOs 289, 301–2
- Stevens, C. 516
- Stiglitz, J. 517, 518
- Stockley, L. 270
- Stokes, E. 372, 376, 377, 381
- Stopes, C. 314
- storage, private storage aid (PSA) 78–9, 106, 498
- Stresa Conference 8, 390, 437, 441
- subsidies
 - CAP history 6, 7, 8
 - cross-subsidization 396–7
 - export *see* export subsidies
 - levels received by large landowners, concerns over 41–2
 - Producer Subsidy Equivalent (PSE) 447–8, 453
 - see also* direct payments regime
- sugar sector
 - biofuels policy 212–13
 - Cotonou Agreement 489, 495, 497
 - and Everything But Arms initiative 489, 515–16
 - export subsidies 502
 - intervention prices 498
 - price support 100
 - private storage aids (PSA) 498
 - quotas 15, 69, 77, 80–81, 395–6, 498–9
 - reference thresholds 106
 - restructuring 519
 - special safeguard (SSG) duties 495
- surpluses
 - CAP history 10–11, 13, 15, 26
 - and 'most deprived scheme' 69–70
 - private storage aid (PSA) 78–9, 106, 498
 - public food stockpiles policies 458
 - see also* quotas
- sustainability
 - and biofuels policy 206–7, 208–9
 - and climate change response 186–7
 - food imports and sustainability concerns 491
 - integrated water resources management 249, 250, 251, 253
 - rural development, opportunities 211
 - and set-aside measures 399
- Sutherland, W. 119
- Sweden 31, 32, 35, 38, 90
- Swinbank, A. 48, 49, 52, 209, 210, 418, 421, 426, 500
- Swinnen, J. 3, 4–5, 19, 492
- Switzer, S. 203–21, 491, 522
- Switzerland 451–2, 454–5
- Synder, F. 8
- Tallacchini, M. 370
- Tangermann, S. 17, 18, 50–51, 57, 105, 397, 413, 421, 441
- Tantari, A. 53
- tariffs
 - CAP history 6, 7, 8–9
 - Doha Round impact 390–91
 - EU Trade Policy Review* on tariff quotas 407
 - preferential market access 402–3, 439, 445, 478, 489, 495–7, 527–8
 - seasonal tariffs on fruit and vegetables 494
 - 'sensitive products' and tariff cuts, designation of 405–6, 407
 - tariff rate quotas (TRQs) 406–9, 410–11, 441, 445

- WTO Agreement on Agriculture (AoA)
 rules and CAP, tariffication process
 440–41, 444–7, 458, 459
see also export subsidies; import levels
- Taube, F. 128
- tax and social security systems and income
 stabilization 102
- Teasdale, A. 8, 437
- Technical Barriers to Trade (TBT) Agreement
 325, 327, 328, 355, 360, 440, 516, 517
- technofoods and food safety policy 368–83,
 533–4
 civil disobedience movements and mass
 rejection of GM foods 375
 Deliberate Release Directive and
 consultation rights 375
 doubt factors and precautionary principle
 372–3
 European Food Safety Authority (EFSA)
 and GM research 376
 European Food Safety Authority (EFSA)
 report on nanotechnologies 381–2
 expert assistance and science-based
 approach 375–7
 Food Information Regulation 380–81
 Food Law Regulation 373, 374–5
 labelling 381, 382
 legal basis of food safety policy 368–9
 nanofoods, and food information to
 consumers 380–83
 nanofoods regulation 379
 nanopovertry warnings 378
 nanotechnology, definition problems 381–2
 nanotechnology, and food additives 379–80
 nanotechnology, legal issues 377–83
 Novel Food Regulation 379, 383
 organic farming concerns 308–9
 risk analysis 370–77
 social acceptability and risk governance
 374–5
see also GMO cultivation
- TFEU
 ‘agricultural community’ identification 45
 animal welfare 326, 329–30, 331, 332–6
 essential nature of agriculture 534, 535, 536,
 538–9
 GMO cultivation 345
 Single Common Market Organization
 (CMO) Regulation 64–6
- third countries
 animal welfare, legislating for 336–9
 Quality Schemes for Agricultural Products
 and Foodstuffs Regulation 293
 trade with 75–6, 82
- Thomas, E. 339
- Thurrow, R. 483
- Tilzey, M. 117
- Tinbergen, J. 31
- tobacco products 44, 81, 478, 501, 502
- Tracy, M. 5, 8, 9, 437
- trade rules and organic foods, links between
 316–18
- trademarks and geographical indications,
 similarities between 286, 297
- Traditional Specialities Guaranteed (TSGs)
 286, 288–9, 298–9
- training
 advisory services and public information
 programmes 179, 186, 187, 190–91
 needs, risk management provisions 99,
 109–10
see also information provision
- Transatlantic Trade and Investment Agreement
 (TTIP) 319, 408–9, 447
- Transpacific Partnership Agreement (TPP)
 446–7
- Tranter, R. 48, 52, 421, 500
- tree planting 185
- Tucker, G. 134, 138
- UK
 agricultural employment (1955–60) 7
 agricultural rationalization into fewer and
 larger farms, early 6
 average profits for income tax purposes 60
 Catchment Sensitive Farming Initiative
 238
 Customs Consolidation Act and animal
 welfare 329–30
 Dartmoor Farming Futures project 122
 deficiency payment scheme 8
 DEFRA *Ecosystem Approach Action Plan*
 120, 121, 122
 diffuse pollution from agriculture 231
 direct payments 31, 32, 35
 Drinking Water Directive implementation
 244
 EEC membership and price increases 12–13
 EU net budgetary balance controversy
 (1984) 15–16, 19
 export of live cattle, concerns over 332–4
 food signpost labelling problems 280–81
 Glastir Scheme, Wales 122
 insurance programmes 90
 Melton Mowbray Pork Pie and Protected
 Geographical Indications (PGIs) 303
 net budgetary balance controversy (1984)
 15–16, 19
 Nitrates Directive compliance failures 236
 nutrient surpluses 223

- 'payments for ecosystem services' (PES) 120–23
- Rural Payments Agency and Basic Payment Scheme 422
- Soil Association and organic certification 313
- South West Water water quality and quantity protection 244–5
- subsidies and marketing support, early 6, 7
- Sustainable Catchment Management Programme (SCaMP) 122
- voluntary modulation system 20
- water pollution preventative measures 227
- Water Resources Act and water pollution incidents 226–7
- Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) (England) Regulations 227
- White Paper on Public Health* 279
- Working Wetlands project 122
- WWF River Nar project, Norfolk 265
- WWF *Slowing the Flow* project, Scotland 265
- UK, environmental impact assessment
 - application to intensive agriculture 150–69
 - ancillary activities and planning exemption 159–60
 - Area of Outstanding Natural Beauty 162, 163
 - Biodiversity Broad Habitat Classification for semi-natural areas 155–6, 162, 166, 167
 - 'building operations' definition 159
 - Conservation of Habitats and Species Regulations 167
 - determination test for projects 155–6
 - 'development' concept 158–9, 166
 - English Nature research 158, 166, 169
 - environmental governance of agricultural projects 151–4
 - Environmental Impact Assessment Directive (EIA Directive) 151–2, 154, 155, 157, 158, 163, 164, 165, 166
 - environmental statement requirement 152
 - Environmental Stewardship scheme 167
 - General Development Order 156, 159, 161
 - Habitats Directive and assessment of projects affecting European wildlife sites 167
 - intensive farming and natural environment 163–5
 - intensive livestock installations 152–3
 - mobile poultry sheds 163, 165
 - Natural England involvement 153, 154–6, 157, 158, 167, 168–9
 - operational test for projects 155, 156, 160–62
 - Planning and Compensation Act 158
 - planning and 'development' considerations 152–4, 156
 - planning system, expanding scope of 158–65
 - precautionary principle application 166
 - R (on the Application of Hall Hunter Partnership) v First Secretary of State* 160–62
 - R (on the application of Save Woolley Valley Action Group Ltd) v Bath and North East Somerset Council* 159, 163, 165, 166
 - R (on the application of Wye Valley Action Association Ltd) v Herefordshire District Council* 158, 162, 164, 165, 166
 - regulatory orders 165–7
 - restructuring and intensification projects 154–8
 - Scottish Government Rural Payments and Inspections Directorate (SGRPID) 154–5
 - screening applications that exceed the thresholds 156–8
 - Special Area of Conservation 167
 - Specially Protected Area 167
 - temporary structures, polytunnels as 160–62
 - thresholds for assessment set by reference to area of land 153, 156–7
 - Town and Country Planning legislation 151, 153, 158–9, 163, 165
- UN, *Millennium Ecosystem Assessment* 243, 248, 262–3
- UN Declaration on the Rights of Indigenous Peoples 324, 327
- UN Millennium Development Goal on reduction of hunger 463–84
 - CAP food security, linkages with, food aid and imports 477–83
 - CAP food security, linkages with, hunger reduction target 478–80
 - CAP food security, linkages with, preferential trade schemes with developing countries 478
 - CAP food security, linkages with, quality production and sustainability transfer to developing countries 480
 - CAP food security, linkages with, regulatory standards, developing countries' problems in meeting 479
 - criticisms of 465–6
 - crop failures 469
 - FAO report on food security 467
 - FAO *Voluntary Guidelines* 473, 475
 - food security as national responsibility 473–4

- international community involvement 474–6
- and International Covenant on Economic, Social and Cultural Rights (ICESCR) 472–3, 474, 475
- literature overview on causes and suggested remedies of hunger 468–76
- market forces and legal relations, effects of 469–70
- population growth effects 467
- poverty eradication 505–6, 509, 525
- right to food under international law 470–76
- Rio+20 summit and *The Future We Want* 473
- Rome Declaration on World Food Security* 465, 473
- targets, concerns about meeting 467–8
- targets and indicators 464, 466–8, 478–80
- UN Committee on Economic, Social and Cultural Rights 474
- WTO system bias against developing countries claim 483
- UN Rio Conferences 249, 473
- Universal Declaration of Human Rights 472
- US
 - Agreement on Organics with EU 318–19
 - Average Crop Revenue Election (ACRE) programme 101
 - Blair House Agreement and export subsidies 442–3
 - domestic price protection concerns 16
 - EU–US FTA 408–9
 - Export Enhancement Programme 388
 - GM food labelling 315–16, 319
 - Marketing Loan Assistance (MLA) programme 101
 - National Organic Program (NOP) 315
 - organic agriculture 312
 - organic food and farming regulation 315–16
 - Organic Foods Production Act 315
 - Production Flexibility Contracts 424, 426, 428, 429, 430, 432
 - retail sales of organic foods 305
 - Rural Business-Cooperative Service 462
 - subsidized grain exports (1972) 12
- ‘use by’, use of term 272
 - see also* food labelling requirements and CAP 2020 aims
- Varis, O. 249
- vegetables *see* fruit and vegetable sector
- Vernon, J. 468, 470
- Vogelpohl, T. 204, 205, 219, 220
- Von Witzke, H. 490
- Vos, E. 344
- Wainio, J. 478
- Water Framework Directive 136, 188–9, 193, 224–7, 231, 232, 235–6, 238, 240, 242–3, 247–52, 255–61
- water management
 - climate change response 173–4, 178, 181, 186, 187, 188–9, 201
 - integrated *see* integrated water resources management and CAP
- water pollution 222–45, 533
 - buffer strips near watercourses 237, 241
 - CAP and agri-environment-climate scheme 239–42, 244
 - CAP and agri-environment-climate scheme, weaknesses 240–41
 - cross-compliance 235–7, 241
 - diffuse pollution effects 222–3, 230–31
 - Drinking Water Directive 244
 - ecosystem services and regulation
 - privatization 243–5
 - ecosystem services and regulation
 - privatization, water quality and quantity protection 244–5
 - environmental dimension of agriculture and CAP 126, 128–9, 136
 - eutrophication (algal blooms on surface waters) 223–4, 228, 229–30
 - farm advisory services 238–9
 - fuel oil storage 227
 - ‘good chemical status’ and ‘good ecological status’ 225
 - ‘greening component’ effects 237–8, 242
 - Groundwater Directive 231–2, 236–7
 - national laws implementing EU water protection directives, inclusion of 225–6, 230–31, 237, 241
 - national nutrient surpluses 223
 - nitrate concentrations in drinking waters and ‘blue baby syndrome’ 223
 - Nitrate Vulnerable Zones and mandatory action programmes 228–9, 231, 236, 237, 241–2
 - Nitrate Vulnerable Zones, precautionary approach 229–30
 - Nitrates Directive 228–31, 236, 237, 242
 - Nitrates Directive, effectiveness concerns 230
 - Nitrates Directive, voluntary code of agricultural good practice 229, 238–9

- ‘noxious’ and ‘polluting’ matter, distinguishing between (UK) 226
- Pesticides Directive 232–4, 235–6, 238
- Pesticides Directive, aerial spraying 234
- Pesticides Directive, inspection of application equipment 232–3
- Pesticides Directive, ‘protected areas’ definition 233–4
- Pesticides Directive, storage and handling care 233
- phosphorous, diffuse pollution by 230–31
- point pollution controls 225
- preventative measures (UK) 227
- river basin approach 224–5, 231
- Rural Development Regulation 238
- Sewage Sludge Directive and heavy metals 234, 235
- silage and slurry effluent 227, 231
- statutory management requirements for cross-compliance 236–7
- surface or groundwater quality status in river basins, delay conditions 225
- timing of fertilizer and manure applications, enforcement problems 230
- Water Framework Directive 224–7, 231, 232, 235–6, 238, 240
- Water Framework Directive, compensation payments under 242–3
- weather-related risks 95, 97
 - see also* catastrophic risks
- Weimer, M. 344, 358
- Weinhold, D. 491
- Westenhoefer, J. 270
- Wiens, J. 204
- Wild Birds Directive 136, 242
- wildlife decline 128
- Willer, H. 304, 305, 306, 307
- Wilson, G. 117
- Winders, B. 114
- wine sector
 - export refunds 403, 502
 - PGIs and PDOs 289, 299–301
 - production restrictions 401
 - Single Common Market Organization (CMO) Regulation 80, 81
 - support schemes 79
 - surpluses 10
 - transitional planting rights regime 69, 77
- Winickoff, D. 315
- Wolf, S. 115, 120, 122
- Woods, A. 120–21
- working lands, sustaining commitment to 114–16, 118–19, 121, 123
- World Bank, on food poverty 461–2
- World Food Programme (WFP) 460
- World Food Summit 465–6, 469–70, 473–4, 483
- Wreford, A. 170
- WTO Agreement on Agriculture (AoA)
 - and agricultural tariffs 494–5, 502
 - animal welfare legislation 323, 325–9
 - community preference, impact of WTO rules, food security 444–9, 459
 - and cotton production, European Consensus on Development implementation 520–22
 - cross-subsidization 396
 - food security 404, 407–8, 440–47, 457–9
 - GMO cultivation 355, 360
 - organic food and farming 311–12
 - private enterprise abuse of WTO mechanisms 394–5
- Quality Schemes for Agricultural Products and Foodstuffs Regulation 286–7, 293
- risk management provisions in CAP 103–5, 105–10
- tariffication process, food security 440–41, 444–7, 458, 459
- and UN Millennium Development Goal on reduction of hunger 483
- Uruguay Round 16, 18, 388–92, 395–6, 404–7, 443, 444–5, 448–9, 531
- WTO Aid for Trade (AfT) 517–18, 519, 525
- WTO Bali Ministerial Conference, food security 404, 407–8, 457–9
- WTO Doha Round 52, 116–17, 443–4, 489, 511–12, 520
 - failure to conclude 439, 452, 457, 460, 483
 - impact *see* CAP, Doha Round impact
- WTO Enhanced Integrated Framework (EIF) 517
- WTO Green Box compatibility
 - agri-environmental governance models 117
 - direct payments regime 51–2, 55, 56, 420–21, 422, 423, 424, 425–6, 427, 428–9, 430–31, 432
 - food security 441, 442, 454, 458
 - risk management provisions 107, 108, 109
- WTO Green Box and post-2013 CAP
 - ‘greening’ direct payments 412–36, 532, 536–7, 539
- Agreement on Agriculture (AoA) rules 418–20
- ‘agricultural activity’ requirement and Direct Payments Regulation 422–4, 429–31
- arable land as ecological focus area (EFA) 428–9
- areas with nitrogen-fixing crops as ecological focus area (EFA) 429
- Basic Payment entitlement 417, 421–4

- compulsory payment for eligible ‘young farmers’ 417, 421
- crop diversification requirements 426–7, 434
- crop diversification requirements, exceptions 427
- decoupled direct payment 414, 420–24
- Direct Payments Regulation 421–4, 427–8, 434, 532
- domestic support reduction commitments exemptions 419–21, 490
- ‘equivalent’ practices, understanding of 424, 426
- EU Lyon Report on Agriculture and Rural Development 416
- farmers as providers of ‘public goods’ 414–16
- food security 415–16
- fundamental requirement and domestic support measures 420, 427, 429, 431–5
- ‘greening component’ 418–35, 536–7
- ‘greening’ history 413–17
- Impact Assessment* 418, 420
- mandatory ‘greening component’ 417
- market failure correction and fundamental requirement 433–5
- Member’s Aggregate Measurement of Support (AMS) 418–19, 458
- multifunctionality and OECD 433–4, 435
- non-commodity output incentives 433–4
- organic production 434
- payment and production linkage requirements after base year 425–31
- permanent grassland, maintenance of, and Habitats and Wild Birds Directives 427–8
- preferred climate and environmentally friendly practices 426
- protectionist allegations 435–6
- short rotation coppice areas as ecological focus area (EFA) 429
- social benefits from ‘public goods’ 415–16
- WTO Sanitary and Phytosanitary Measures (SPS Agreement) 354–5, 360, 491–2
- Wu, M. 329
- Wunder, S. 119
- WWF
 - River Nar project, Norfolk 265
 - Slowing the Flow* project, Scotland 265
- Wynne-Jones, S. 122
- young farmers
 - compulsory payment, and WTO Green Box 417, 421
 - direct payments regime 55–6, 191, 197, 417, 421