

SUBJECT INDEX

- Abrasion 315
- Accumulation effect 277
- Aesthetic enjoyment 84
- Agricultural
 - systems 169-171, 175, 182, 184
 - yield 172-179
- Albedo 3, 270
- Alkali hazard 187
- Aquifer, 28, 31
- Aquatic life 324-328
- Artificial
 - infiltration 367-368
 - precipitation 371-372
- Balance
 - hydrological 5-6, 8-9, 224, 265-271
 - chemical 163
 - energetic 3-5, 164, 269-270
 - of benefits and expenses 356
 - of water resources and needs 90, 220-225
- Biochemical
 - cycle 50-53, 75
 - disintegration 98, 317
 - development 171
- Biogeoelement 51, 53-55, 294-298
- Biomass 71, 77-79
- Biosphere 4, 71, 324
- Boiling water 157-160
- Capacity
 - optimum - 113
 - moisture-holding 190
- Carcenogens 122
- Capital-turnover ratio 352
- Catchment area 8
- Changes
 - influencing precipitation 282
 - in hydrological data 262-265
 - in the inundated area 329
 - in the reservoir environment 329-330
- Clogging 41
- Climatic drought 49
- Climatological functions 45-49
- Climate 46, 49, 50, 73
- Coefficient of
 - channel roughness 32
 - deoxygenation 97-9
 - efficiency 111
 - evaporation 156
 - extension 105
 - field efficiency 199
 - heat reflectance 4, 46
 - diffusion 69
 - irrigation efficiency 189, 191
 - permeability 212
 - reaeration 96-98
 - recycling 151
 - reduction 32
 - reflection 3
 - runoff 34, 36, 282-285
 - soil quality 172
 - storage 212
 - transmissivity 212
 - transpiration 178
 - variation 103
 - water delivery 189, 198
 - water loss 156
 - water requirements 177
 - total efficiency 199
 - yield 178
- conjunctive use 363-365
- consumers 71
- consumptive use 88-91, 180
- cost of water 131, 138, 335, 358-361
- cost-sharing method 256-258

- Criterion
 - of environmental protection 226
 - of in-stream water utilization 227
 - of withdrawal priorities 227
- Critical bottom
- current velocity 100
- Degree of flood control 239
- Delta formation 309
- Deposition 310
- Depth of the fairway 105
- Desalination
- Destratification 324
- Destructors 71
- Dew-point 48
- Draught
 - admissible 104
- Drinking water 121-136
- Ecosystem 73, 74, 77
 - aquatic 77, 324-328
- Economic optimization 255-258
- Efficiency
 - filtration 164
 - irrigation 189, 191
 - fertilizing 192
 - sanitary 193
 - water use 181
- Electrical conductivity 70
- Energy
 - balance natural 3, 4, 8, 12
 - balance in industry 164
 - input 62
 - reflection 4, 270
- Epilimnion 319
- Erosion 51-53, 55, 315
- Eutrophization 99
- Evaporation 10-18, 33, 36, 46
 - losses 155, 156, 203
 - redistribution 306
 - suppression 369
- Evapotranspiration 10, 13, 15-18, 43, 48, 274
- Fairway 104-105
- Financial analysis 255-258
- Fish occurrence 327-328
- Floods 52
- Flood control 240, 330
- Flow control 239-245
- Flow
 - saturated 25
 - unsaturated 25
 - in channel network 32
 - overland 22-23
- Freight turnover 107
- Groundwater 25-50
 - classification 67-68
 - flow 40, 66
 - fluctuation 31
 - potential 29-30
 - recharge 35
 - reserve runoff 37
- Guaranteed delivery 213
- Guarantee rate 236-238
- Homeostasis 1
- Hothouse effect 46
- Hydraulic conductivity 29-30, 4, 212
- Hydrologic
 - cycle 4, 8-10, 50, 71
- Hydrometeorological regime 262
- Hydrosphere 94
- Hypolimnion 319, 322
- Index of water management 232
- Inland water transport 103-111
- Interception 21, 22, 33, 274
- Infiltration 23-25, 33, 40, 41, 275-277
- Impact of
 - agriculture 271-287, 292-297

- forestry 271-287
- industrialization 287-292
- irrigation 305
- reservoir 303, 330
- Impact on
 - erosion and floods 277-281
 - groundwater 282
 - ichthyofauna 327-328
 - mesoclimate 306-309
 - rainfall 282
 - sediment transport 309-313
 - temperature 318-321
 - water quality 316
- Infiltration 23-25, 33, 40-41
- Inland navigation 103-111
- Irrigation
 - anti-frost 195
 - fertilizing - 191-194
 - leaching - 195
 - methods 189
 - protective 194-195
 - remedial 191-194
 - requirements 188
 - water quality 185-187
- Lake ecological model 323
- Land classification 188
- Langellier's index 129
- Law of minimum 77
- Local climate 46, 73
- Lockage 107-111
- Long-distance conveyance 361-363
- Marginal transport distance 362
- Metalimnion 319
- Microclimate 119, 307-308
- Mineralization 62, 316
- Minimum discharges 225-229
- Mixing formula 316, 333
- Modelling 247-251
- Monolimnion 319
- Multipurpose water utilization 257, 301
- Natural environment 1, 303, 324
- Non-conventional
 - techniques 218
 - water resources 222
- Non-utilizable reserve 219
- Nutrition chain 97
- Optimization 240, 254-256
- Operating procedures 240
- Oxygen
 - content 96
- Oxygen demand
 - biochemical 69, 97, 102
 - chemical 69
- Parameters of waterway 103-106
- Planning model 259-261
- Pollution 29, 293-296
 - primary -
 - secondary -
 - air - 293, 297-299
- Specific daily 120
- Population equivalent 166
- Porosity
 - effective 25, 40, 212
 - total 25, 212
- Precipitation 19-21, 33, 36, 49
- Process
 - aerobic 97
 - anaerobic 97
- Producers 71
- Production process 77
- Protection against floods 89
- Protection of pipelines 129
- Rainfall-runoff process 36
- Rate
 - of guarantee 234-238
 - of infiltration 25
 - of usage 231

Ratio (of)

- concentration
- water consumption 151
- water losses 152
- water re-use 149-150
- water surface 304
- withdrawals 232
- withdrawal utilization 152
 - sodium-adsorption 186

Raw water 127

Release

- additional 240-243

Reservoir operation

Reimbursement of expenses 356

Resulting unit mass 316

Retention effect

Return flow 90

River boards 341

River training 336-337

Routing of the fairway 106

Runoff 33

- augmentation 368-371
- coefficient 34, 282, 285
- groundwater - 26-32, 217-220
- intermediate - 37
- regulator 46
- surface - 34, 37, 217-220
- total annual - 35

Safe yield 213

Salt tolerance 187

Sanitary

- admissible concentration 126, 296
- hazard 193

Saturation 25, 63

Sediment

- deposition 310-313
- transport 309, 339

Sedimentation 95-96

Self-purification 94-5, 99, 102

Sodium adsorption ratio 186

Soil

- moisture 26, 42
- quality 44, 61, 67-70, 79, 81
- regeneration 9, 336, 351
- water potential 30
- water regime 44

Storage

- depression and detention - 22, 23, 33
- flood - 239
- reduction - 309-313
- underground - 363-365

Steam power water 157-160

Stokes law 95

Storativity 212

Suffusion 41

System

- abiotic 1
- agricultural 169
- analysis 247
- biological 1
 - categories

closed-circuit - 146, 123, 145-148, 155

- decision making 341
- economic - 252
- industrial 144
- modelling 247-252
- open-circuit 145-146, 155
- operation
- optimization 253-254
- root - 176
- socio-economic 1
- steam 158
- successive re-use - 146
- water management - 245-247

Thermal stratification 318-324

Toxic matter 298

Transmissivity 212

Transpiration 46

Transport capacity 309

Trap efficiency 312

Trophicity 79

Waste

- free technologies 167-169
- disposal 94-101

Waste water 90, 94, 144, 147, 191-194

- - categories 296
- - not suitable for recycling 166
- - re-use and recycling 165

Water

- circulation ratio 10
- consumption 88-93, 149-152, 159, 181
- conveyance 361-363
- cooling - 155-157
- development stages 211
- dilution - 120
- drinking - 121-136
- entering the product 145
 - feed - 158-159

Water losses 88, 93, 110

- in industry 145, 149-151, 160-165

Water management

- activities 343
- function of forests
- organizations 342
- paradoxes 344-346
- policy 92, 341
 - products 353
 - services 354
 - strategy 346-350
 - tactics 351

Water metering 142

- mining 152-153
- needs 221
- occurrence 1, 7, 88, 212
- pollution 70, 98, 111, 207-210
- pollution indicators 70, 102, 186, 221
- power 111
- pricing 138, 335, 358-361

- quality 100, 224

- rates 131, 355, 358-361

- recreation 115-120

- recycling 150-160

Water requirements 88, 92, 220-222

actual - - 175, 180

agricultural - - 171

domestic - - 130

fire extinguishing - - 136 - 138

inland navigation - - 109

livestock 204, 208

lockage 108-111

maximum - - 141, 207

minimum - - 92, 141

municipal - - 120-139

- - per capita and day 131-135

- - per unit of production 152

physiological - - 122,

plant - - 173-180

processing - - 153-155

rural - - 120-139

urban public - - 134-189

raw - 127

- re-use 133, 144-152

- saving 92, 110, 133

steam power - 157-160

supplementary - 158, 161, 163

- supply 8, 86, 88

- transport 103

- treatment 127-128, 153-154, 158

- use 86, 93

- - in-stream 86, 87, 93

- - on-site 86, 93

Water users 86

Water uses

- - non-conventional

Warm - 130

Water wastage 132, 141-142

Waterway classification 104

Water withdrawal 86-88

Yield

- agricultural - 172-179
- economically utilizable - 217
- maximum sustained - 214
- mining - 214, 218
- natural - 215, 217
- permissive sustained - 214
- theoretical - 215, 217, 218
- technically utilizable - 215