

Table 4.23 Irrigation Area and Irrigation Diversion Requirement (1/3)

| River Basin Code | Representative Province | Irrigation Area (ha) | Irrigation Diversion Requirement (mm/month) | | | | | | | | | | | | Annual |
|------------------|-------------------------|----------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 1010 | D.I.Aceh | 12,593 | 197 | 147 | 84 | 40 | 52 | 73 | 82 | 101 | 182 | 244 | 214 | 249 | 1,664 |
| 1020 | D.I.Aceh | 21,634 | 166 | 141 | 77 | 41 | 51 | 75 | 84 | 99 | 180 | 230 | 207 | 219 | 1,570 |
| 1030 | D.I.Aceh | 33,674 | 177 | 157 | 81 | 41 | 44 | 72 | 82 | 96 | 162 | 210 | 232 | 219 | 1,573 |
| 1040 | D.I.Aceh | 16,795 | 177 | 165 | 86 | 43 | 44 | 69 | 78 | 93 | 149 | 210 | 207 | 179 | 1,500 |
| 1050 | D.I.Aceh | 17,160 | 177 | 165 | 81 | 39 | 36 | 61 | 66 | 73 | 118 | 144 | 161 | 179 | 1,301 |
| 1060 | D.I.Aceh | 19,100 | 141 | 123 | 45 | 22 | 32 | 57 | 63 | 67 | 117 | 134 | 107 | 183 | 1,091 |
| 1071 | D.I.Aceh | 21,435 | 184 | 130 | 50 | 26 | 39 | 60 | 69 | 73 | 122 | 152 | 142 | 207 | 1,252 |
| 1072 | D.I.Aceh | 2,406 | 173 | 122 | 50 | 29 | 40 | 52 | 54 | 59 | 123 | 151 | 139 | 197 | 1,190 |
| 1080 | Sumatera Utara | 51,780 | 225 | 185 | 78 | 65 | 127 | 173 | 169 | 138 | 124 | 151 | 177 | 199 | 1,812 |
| 1090 | Sumatera Utara | 24,590 | 230 | 211 | 131 | 114 | 114 | 163 | 169 | 132 | 120 | 146 | 225 | 189 | 1,944 |
| 1100 | Sumatera Utara | 73,431 | 245 | 195 | 116 | 99 | 126 | 157 | 162 | 132 | 120 | 146 | 213 | 245 | 1,955 |
| 1110 | Sumatera Utara | 29,181 | 244 | 209 | 116 | 105 | 133 | 165 | 170 | 135 | 124 | 149 | 228 | 250 | 2,028 |
| 1121 | Sumatera Utara | 4,591 | 258 | 197 | 108 | 98 | 146 | 183 | 185 | 153 | 140 | 183 | 228 | 250 | 2,130 |
| 1122 | Sumatera Utara | 23,287 | 258 | 197 | 108 | 98 | 146 | 183 | 185 | 153 | 140 | 183 | 228 | 250 | 2,130 |
| 1131 | Sumatera Utara | 20,170 | 217 | 209 | 123 | 98 | 139 | 171 | 174 | 142 | 124 | 149 | 205 | 236 | 1,988 |
| 1132 | Sumatera Utara | 19,040 | 156 | 152 | 76 | 78 | 146 | 189 | 190 | 150 | 145 | 183 | 205 | 183 | 1,854 |
| 1141 | Sumatera Utara | 55,727 | 189 | 142 | 69 | 64 | 123 | 167 | 167 | 132 | 127 | 145 | 147 | 170 | 1,643 |
| 1142 | Sumatera Utara | 4,809 | 175 | 132 | 55 | 51 | 118 | 137 | 146 | 97 | 96 | 109 | 125 | 126 | 1,368 |
| 1150 | Riau | 19,708 | 159 | 217 | 147 | 80 | 79 | 83 | 116 | 156 | 143 | 121 | 111 | 171 | 1,582 |
| 1161 | Riau | 1,723 | 224 | 241 | 172 | 91 | 75 | 87 | 115 | 158 | 150 | 135 | 129 | 230 | 1,806 |
| 1162 | Riau | 0 | 236 | 267 | 182 | 85 | 69 | 87 | 115 | 160 | 161 | 145 | 122 | 210 | 1,839 |
| 1171 | Riau | 20,914 | 154 | 184 | 134 | 72 | 58 | 81 | 107 | 150 | 142 | 125 | 99 | 164 | 1,469 |
| 1172 | Riau | 149 | 190 | 258 | 206 | 92 | 62 | 74 | 100 | 155 | 151 | 137 | 125 | 209 | 1,759 |
| 1181 | Riau | 57,334 | 165 | 184 | 142 | 66 | 74 | 89 | 110 | 155 | 142 | 130 | 117 | 180 | 1,554 |
| 1182 | Riau | 43 | 217 | 261 | 175 | 80 | 58 | 71 | 99 | 156 | 147 | 137 | 127 | 197 | 1,723 |
| 1191 | Sumatera Barat | 21,586 | 135 | 156 | 118 | 84 | 101 | 132 | 168 | 156 | 125 | 117 | 113 | 95 | 1,498 |
| 1192 | Sumatera Barat | 3,413 | 136 | 114 | 98 | 76 | 108 | 125 | 135 | 109 | 126 | 109 | 111 | 90 | 1,337 |
| 1201 | Sumatera Barat | 50,402 | 224 | 207 | 132 | 90 | 125 | 169 | 191 | 176 | 155 | 136 | 133 | 137 | 1,875 |
| 1202 | Sumatera Barat | 8,763 | 177 | 210 | 137 | 102 | 135 | 125 | 157 | 154 | 139 | 133 | 140 | 135 | 1,743 |
| 1210 | Jambi | 55,293 | 140 | 89 | 67 | 50 | 70 | 123 | 130 | 158 | 179 | 241 | 148 | 134 | 1,531 |
| 1220 | Sumatera Selatan | 5,353 | 166 | 179 | 114 | 94 | 186 | 168 | 173 | 130 | 87 | 144 | 193 | 191 | 1,824 |
| 1230 | Sumatera Selatan | 1,014 | 135 | 205 | 134 | 106 | 172 | 162 | 165 | 155 | 105 | 156 | 187 | 140 | 1,821 |
| 1241 | Sumatera Selatan | 71,242 | 138 | 149 | 100 | 97 | 193 | 187 | 187 | 144 | 101 | 157 | 195 | 177 | 1,824 |
| 1242 | Sumatera Selatan | 2,740 | 196 | 221 | 107 | 107 | 176 | 178 | 187 | 151 | 106 | 151 | 214 | 177 | 1,970 |
| 1250 | Lampung | 17,928 | 158 | 108 | 63 | 92 | 113 | 144 | 153 | 116 | 97 | 234 | 269 | 177 | 1,723 |
| 1261 | Lampung | 71,455 | 138 | 102 | 71 | 110 | 127 | 141 | 146 | 115 | 102 | 238 | 270 | 165 | 1,725 |
| 1262 | Lampung | 33,083 | 171 | 102 | 71 | 102 | 121 | 133 | 146 | 114 | 102 | 223 | 294 | 188 | 1,766 |
| 1270 | Lampung | 16,168 | 220 | 144 | 87 | 99 | 113 | 130 | 129 | 87 | 76 | 142 | 208 | 213 | 1,647 |
| 1280 | Bengkulu | 16,680 | 147 | 140 | 101 | 49 | 59 | 62 | 77 | 87 | 87 | 105 | 107 | 152 | 1,173 |
| 1290 | Bengkulu | 14,339 | 130 | 120 | 93 | 45 | 46 | 58 | 75 | 80 | 76 | 91 | 107 | 137 | 1,057 |
| 1300 | Bengkulu | 7,152 | 176 | 189 | 125 | 64 | 58 | 68 | 78 | 86 | 80 | 91 | 130 | 151 | 1,297 |
| | Sumatera | Average | 184 | 171 | 105 | 75 | 98 | 119 | 130 | 125 | 127 | 157 | 172 | 184 | 1,647 |

Table 4.23 Irrigation Area and Irrigation Diversion Requirement (2/3)

| River Basin Code | Representative Province | Irrigation Area (ha) | Irrigation Diversion Requirement (mm/month) | | | | | | | | | | | | Annual |
|------------------|-------------------------|----------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 2011 | Jawa Barat | 31,254 | 135 | 132 | 162 | 216 | 239 | 273 | 255 | 161 | 94 | 139 | 227 | 194 | 2,229 |
| 2012 | Jawa Barat | 30,254 | 170 | 140 | 169 | 176 | 215 | 243 | 232 | 137 | 89 | 135 | 245 | 231 | 2,181 |
| 2020 | DKI Jakarta | 66,655 | 172 | 171 | 197 | 66 | 180 | 237 | 263 | 261 | 121 | 46 | 119 | 359 | 2,191 |
| 2030 | Jawa Barat | 100,521 | 126 | 120 | 125 | 161 | 200 | 231 | 225 | 145 | 85 | 109 | 152 | 146 | 1,824 |
| 2041 | Jawa Barat | 70,059 | 106 | 108 | 150 | 201 | 232 | 277 | 255 | 157 | 95 | 153 | 230 | 198 | 2,162 |
| 2042 | Jawa Barat | 282,345 | 187 | 164 | 169 | 198 | 242 | 303 | 267 | 160 | 95 | 141 | 210 | 218 | 2,354 |
| 2051 | Jawa Barat | 122,875 | 189 | 176 | 175 | 208 | 226 | 246 | 215 | 150 | 87 | 114 | 180 | 202 | 2,169 |
| 2052 | Jawa Barat | 91,638 | 269 | 224 | 211 | 190 | 155 | 116 | 113 | 106 | 76 | 95 | 165 | 222 | 1,944 |
| 2060 | Jawa Barat | 89,242 | 102 | 90 | 125 | 192 | 237 | 293 | 261 | 157 | 95 | 159 | 236 | 177 | 2,123 |
| 2070 | Jawa Tengah | 95,110 | 126 | 143 | 114 | 139 | 146 | 156 | 144 | 118 | 84 | 140 | 191 | 150 | 1,651 |
| 2080 | Jawa Tengah | 137,657 | 120 | 112 | 138 | 177 | 186 | 185 | 169 | 131 | 91 | 165 | 254 | 173 | 1,901 |
| 2091 | Jawa Tengah | 68,132 | 114 | 123 | 87 | 91 | 102 | 139 | 128 | 113 | 84 | 122 | 137 | 110 | 1,350 |
| 2092 | Jawa Tengah | 72,399 | 144 | 147 | 122 | 143 | 153 | 149 | 141 | 118 | 80 | 132 | 157 | 142 | 1,631 |
| 2101 | Jawa Tengah | 63,573 | 146 | 162 | 152 | 170 | 193 | 200 | 180 | 136 | 95 | 167 | 260 | 198 | 2,059 |
| 2102 | Jawa Tengah | 45,349 | 182 | 196 | 170 | 197 | 214 | 210 | 180 | 136 | 95 | 167 | 251 | 198 | 2,196 |
| 2103 | Jawa Tengah | 70,691 | 115 | 152 | 170 | 197 | 214 | 200 | 180 | 136 | 95 | 172 | 277 | 219 | 2,128 |
| 2111 | Jawa Tengah | 63,980 | 149 | 153 | 114 | 152 | 164 | 176 | 158 | 120 | 84 | 151 | 212 | 163 | 1,797 |
| 2112 | Yogyakarta | 40,898 | 97 | 119 | 159 | 292 | 223 | 242 | 230 | 123 | 119 | 85 | 152 | 219 | 2,060 |
| 2121 | Jawa Tengah | 244,156 | 172 | 151 | 138 | 164 | 192 | 203 | 180 | 138 | 96 | 173 | 241 | 197 | 2,043 |
| 2122 | Jawa Tengah | 105,132 | 202 | 191 | 160 | 200 | 223 | 209 | 180 | 138 | 96 | 175 | 273 | 217 | 2,265 |
| 2123 | Jawa Timur | 10,490 | 193 | 195 | 210 | 197 | 185 | 214 | 156 | 113 | 72 | 105 | 193 | 236 | 2,069 |
| 2131 | Jawa Timur | 195,442 | 152 | 145 | 153 | 162 | 181 | 209 | 152 | 101 | 64 | 110 | 235 | 260 | 1,923 |
| 2132 | Jawa Timur | 101,202 | 152 | 145 | 153 | 128 | 149 | 197 | 149 | 101 | 64 | 103 | 180 | 202 | 1,723 |
| 2133 | Jawa Timur | 42,820 | 180 | 202 | 189 | 162 | 170 | 161 | 130 | 100 | 66 | 97 | 187 | 227 | 1,870 |
| 2141 | Jawa Timur | 110,658 | 188 | 174 | 195 | 188 | 208 | 205 | 151 | 101 | 62 | 111 | 250 | 286 | 2,120 |
| 2142 | Jawa Timur | 115,304 | 188 | 184 | 169 | 151 | 175 | 192 | 145 | 101 | 64 | 101 | 196 | 229 | 1,896 |
| 2143 | Jawa Timur | 103,556 | 227 | 195 | 195 | 199 | 186 | 168 | 140 | 101 | 62 | 107 | 250 | 286 | 2,117 |
| 2150 | Jawa Timur | 28,946 | 225 | 246 | 227 | 179 | 215 | 240 | 176 | 117 | 71 | 119 | 263 | 292 | 2,371 |
| | Jawa | Average | 162 | 159 | 161 | 175 | 193 | 210 | 184 | 131 | 85 | 128 | 212 | 213 | 2,012 |
| 3011 | Bali | 13,900 | 173 | 168 | 172 | 220 | 200 | 200 | 275 | 286 | 250 | 251 | 212 | 217 | 2,625 |
| 3012 | Bali | 80,312 | 173 | 179 | 206 | 232 | 190 | 179 | 241 | 286 | 249 | 216 | 173 | 182 | 2,506 |
| 3020 | Nusa Tenggara Barat | 100,149 | 242 | 217 | 229 | 216 | 169 | 154 | 78 | 28 | 25 | 108 | 298 | 285 | 2,049 |
| 3030 | Nusa Tenggara Barat | 54,732 | 241 | 200 | 216 | 204 | 185 | 163 | 84 | 30 | 27 | 110 | 305 | 292 | 2,058 |
| 3040 | Nusa Tenggara Timur | 14,378 | 237 | 231 | 267 | 320 | 303 | 252 | 285 | 246 | 207 | 182 | 134 | 165 | 2,829 |
| 3050 | Nusa Tenggara Timur | 29,196 | 235 | 237 | 295 | 350 | 300 | 259 | 293 | 256 | 218 | 186 | 140 | 179 | 2,950 |
| 3060 | Nusa Tenggara Timur | 23,994 | 269 | 254 | 332 | 392 | 315 | 270 | 299 | 257 | 214 | 185 | 147 | 194 | 3,127 |
| 3070 | Timor Timur | 7,194 | 239 | 235 | 282 | 319 | 229 | 214 | 275 | 237 | 199 | 177 | 127 | 178 | 2,712 |
| | Bali & NT | Average | 226 | 215 | 250 | 282 | 236 | 211 | 229 | 203 | 174 | 177 | 192 | 211 | 2,607 |
| 4010 | Kalimantan Selatan | 7,964 | 94 | 178 | 201 | 275 | 251 | 116 | 73 | 42 | 42 | 111 | 88 | 71 | 1,543 |
| 4021 | Kalimantan Tengah | 47,082 | 243 | 281 | 182 | 107 | 85 | 126 | 153 | 113 | 73 | 84 | 154 | 213 | 1,815 |
| 4022 | Kalimantan Selatan | 46,828 | 82 | 163 | 192 | 248 | 265 | 172 | 103 | 48 | 45 | 104 | 69 | 47 | 1,537 |
| 4030 | Kalimantan Tengah | 12,280 | 236 | 285 | 178 | 115 | 87 | 113 | 139 | 113 | 52 | 83 | 146 | 211 | 1,756 |
| 4040 | Kalimantan Tengah | 6,368 | 277 | 305 | 194 | 134 | 106 | 137 | 155 | 124 | 72 | 83 | 169 | 211 | 1,966 |
| 4050 | Kalimantan Tengah | 2,485 | 287 | 318 | 163 | 126 | 101 | 137 | 156 | 113 | 69 | 85 | 160 | 248 | 1,964 |
| 4061 | Kalimantan Tengah | 2,456 | 287 | 328 | 186 | 139 | 91 | 131 | 148 | 124 | 77 | 85 | 164 | 241 | 2,003 |
| 4062 | Kalimantan Tengah | 4,555 | 287 | 328 | 186 | 139 | 91 | 131 | 148 | 124 | 77 | 85 | 164 | 241 | 2,003 |
| 4070 | Kalimantan Barat | 14,120 | 79 | 34 | 24 | 19 | 21 | 28 | 61 | 127 | 277 | 228 | 140 | 126 | 1,164 |
| 4080 | Kalimantan Barat | 74,931 | 70 | 30 | 21 | 19 | 23 | 29 | 56 | 108 | 235 | 202 | 144 | 136 | 1,072 |
| 4090 | Kalimantan Barat | 18,571 | 61 | 41 | 32 | 25 | 25 | 33 | 60 | 119 | 269 | 214 | 136 | 117 | 1,132 |
| 4100 | Kalimantan Timur | 1,457 | 259 | 200 | 115 | 52 | 56 | 83 | 120 | 119 | 136 | 223 | 191 | 254 | 1,809 |
| 4110 | Kalimantan Timur | 1,521 | 196 | 162 | 94 | 50 | 58 | 95 | 143 | 138 | 143 | 205 | 199 | 228 | 1,711 |
| 4120 | Kalimantan Timur | 515 | 246 | 190 | 127 | 66 | 75 | 126 | 177 | 189 | 208 | 286 | 264 | 267 | 2,218 |
| 4130 | Kalimantan Timur | 983 | 273 | 210 | 120 | 63 | 75 | 112 | 183 | 181 | 217 | 297 | 301 | 267 | 2,301 |
| 4141 | Kalimantan Timur | 5,762 | 211 | 166 | 92 | 48 | 59 | 95 | 161 | 178 | 196 | 254 | 229 | 224 | 1,915 |
| 4142 | Kalimantan Timur | 1,945 | 234 | 173 | 90 | 56 | 65 | 92 | 142 | 157 | 215 | 311 | 284 | 262 | 2,081 |
| | Kalimantan | Average | 201 | 200 | 129 | 99 | 90 | 103 | 128 | 125 | 141 | 173 | 177 | 198 | 1,764 |

Table 4.23 Irrigation Area and Irrigation Diversion Requirement (3/3)

| River Basin Code | Representative Province | Irrigation Area (ha) | Irrigation Diversion Requirement (mm/month) | | | | | | | | | | | | Annual |
|------------------|-------------------------|----------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 5011 | Sulawesi Utara | 11,079 | 143 | 145 | 159 | 163 | 167 | 156 | 213 | 218 | 205 | 210 | 183 | 168 | 2,130 |
| 5012 | Sulawesi Utara | 5,452 | 143 | 155 | 150 | 171 | 176 | 174 | 223 | 227 | 205 | 210 | 192 | 177 | 2,204 |
| 5013 | Sulawesi Utara | 11,136 | 225 | 210 | 204 | 185 | 175 | 134 | 176 | 196 | 192 | 207 | 198 | 199 | 2,303 |
| 5021 | Sulawesi Utara | 6,756 | 142 | 154 | 178 | 188 | 166 | 156 | 229 | 232 | 197 | 185 | 191 | 199 | 2,217 |
| 5022 | Sulawesi Utara | 5,873 | 307 | 280 | 248 | 234 | 229 | 203 | 249 | 241 | 222 | 248 | 271 | 292 | 3,024 |
| 5031 | Sulawesi Utara | 1,292 | 142 | 154 | 178 | 188 | 166 | 156 | 229 | 232 | 197 | 185 | 191 | 199 | 2,217 |
| 5032 | Sulawesi Utara | 7,747 | 307 | 280 | 248 | 234 | 229 | 203 | 249 | 241 | 222 | 248 | 271 | 292 | 3,024 |
| 5041 | Sulawesi Tengah | 18,813 | 193 | 193 | 243 | 224 | 222 | 237 | 276 | 304 | 277 | 239 | 197 | 228 | 2,830 |
| 5042 | Sulawesi Tengah | 14,467 | 336 | 322 | 331 | 256 | 232 | 237 | 250 | 304 | 300 | 267 | 256 | 333 | 3,423 |
| 5050 | Sulawesi Tengah | 11,509 | 278 | 240 | 225 | 135 | 148 | 186 | 243 | 301 | 284 | 230 | 201 | 270 | 2,742 |
| 5061 | Sulawesi Tengah | 2,176 | 260 | 268 | 250 | 175 | 135 | 124 | 125 | 141 | 204 | 238 | 226 | 277 | 2,424 |
| 5062 | Sulawesi Tengah | 5,035 | 260 | 268 | 250 | 175 | 135 | 124 | 125 | 141 | 204 | 238 | 226 | 277 | 2,424 |
| 5070 | Sulawesi Tengah | 8,039 | 347 | 322 | 311 | 232 | 188 | 124 | 150 | 256 | 281 | 275 | 268 | 321 | 3,075 |
| 5080 | Sulawesi Tengah | 5,654 | 228 | 195 | 188 | 138 | 148 | 149 | 181 | 231 | 281 | 257 | 210 | 229 | 2,434 |
| 5091 | Sulawesi Tengah | 25,124 | 312 | 307 | 316 | 246 | 241 | 257 | 295 | 324 | 295 | 263 | 247 | 308 | 3,410 |
| 5092 | Sulawesi Tengah | 12,123 | 312 | 307 | 316 | 246 | 241 | 257 | 295 | 324 | 295 | 263 | 247 | 308 | 3,410 |
| 5101 | Sulawesi Tenggara | 7,555 | 310 | 307 | 324 | 274 | 251 | 215 | 238 | 211 | 139 | 136 | 203 | 369 | 2,977 |
| 5102 | Sulawesi Tenggara | 8,885 | 310 | 307 | 324 | 274 | 251 | 215 | 238 | 211 | 139 | 136 | 203 | 369 | 2,977 |
| 5111 | Sulawesi Tenggara | 6,372 | 281 | 275 | 281 | 287 | 251 | 188 | 238 | 222 | 143 | 136 | 210 | 343 | 2,856 |
| 5112 | Sulawesi Tenggara | 3,433 | 274 | 262 | 314 | 275 | 263 | 233 | 301 | 245 | 146 | 139 | 211 | 314 | 2,978 |
| 5120 | Sulawesi Tenggara | 8,463 | 253 | 261 | 256 | 218 | 202 | 215 | 225 | 201 | 132 | 122 | 190 | 343 | 2,618 |
| 5131 | Sulawesi Selatan | 2,063 | 237 | 251 | 245 | 177 | 143 | 193 | 301 | 353 | 299 | 199 | 84 | 109 | 2,591 |
| 5132 | Sulawesi Selatan | 11,079 | 237 | 251 | 245 | 177 | 143 | 193 | 301 | 353 | 299 | 199 | 84 | 109 | 2,591 |
| 5133 | Sulawesi Selatan | 3,208 | 237 | 335 | 362 | 278 | 191 | 217 | 326 | 367 | 311 | 199 | 92 | 113 | 3,028 |
| 5141 | Sulawesi Selatan | 8,502 | 210 | 196 | 167 | 143 | 117 | 158 | 272 | 333 | 301 | 197 | 73 | 93 | 2,260 |
| 5142 | Sulawesi Selatan | 7,888 | 188 | 207 | 167 | 128 | 97 | 133 | 226 | 254 | 251 | 197 | 88 | 90 | 2,027 |
| 5143 | Sulawesi Selatan | 9,872 | 219 | 230 | 185 | 143 | 117 | 158 | 238 | 278 | 276 | 206 | 84 | 108 | 2,241 |
| 5144 | Sulawesi Selatan | 8,009 | 227 | 255 | 185 | 143 | 129 | 166 | 248 | 305 | 264 | 206 | 84 | 116 | 2,327 |
| 5151 | Sulawesi Selatan | 17,381 | 266 | 309 | 300 | 221 | 158 | 206 | 298 | 341 | 290 | 188 | 94 | 121 | 2,791 |
| 5152 | Sulawesi Selatan | 38,526 | 236 | 238 | 193 | 158 | 143 | 189 | 298 | 355 | 315 | 197 | 78 | 100 | 2,500 |
| 5153 | Sulawesi Selatan | 37,817 | 141 | 138 | 173 | 221 | 191 | 251 | 349 | 369 | 328 | 213 | 67 | 68 | 2,510 |
| 5161 | Sulawesi Selatan | 24,126 | 323 | 403 | 344 | 227 | 81 | 130 | 187 | 262 | 223 | 200 | 112 | 156 | 2,647 |
| 5162 | Sulawesi Selatan | 71,778 | 290 | 350 | 328 | 239 | 130 | 177 | 275 | 343 | 322 | 225 | 107 | 141 | 2,926 |
| 5171 | Sulawesi Selatan | 43,002 | 133 | 130 | 171 | 249 | 191 | 242 | 348 | 365 | 325 | 232 | 80 | 67 | 2,533 |
| 5172 | Sulawesi Selatan | 56,243 | 274 | 308 | 267 | 176 | 77 | 128 | 220 | 345 | 316 | 233 | 107 | 125 | 2,577 |
| | Sulawesi | Average | 245 | 252 | 246 | 206 | 175 | 185 | 247 | 275 | 248 | 209 | 166 | 210 | 2,664 |
| 6010 | Maluku | 0 | 62 | 52 | 202 | 167 | 267 | 262 | 401 | 353 | 199 | 194 | 57 | 67 | 2,282 |
| 6020 | Maluku | 8,152 | 90 | 71 | 233 | 168 | 185 | 80 | 164 | 155 | 122 | 161 | 54 | 79 | 1,562 |
| 6030 | Maluku | 322 | 84 | 64 | 228 | 179 | 248 | 173 | 294 | 262 | 152 | 155 | 43 | 71 | 1,953 |
| 7010 | Irian Jaya | 764 | 67 | 47 | 180 | 143 | 236 | 156 | 268 | 215 | 120 | 126 | 38 | 66 | 1,662 |
| 7020 | Irian Jaya | 621 | 64 | 41 | 166 | 159 | 266 | 186 | 273 | 219 | 119 | 118 | 36 | 65 | 1,713 |
| 7030 | Irian Jaya | 687 | 71 | 45 | 171 | 135 | 208 | 101 | 175 | 121 | 82 | 108 | 35 | 68 | 1,320 |
| 7040 | Irian Jaya | 51 | 60 | 39 | 152 | 138 | 237 | 204 | 307 | 247 | 136 | 137 | 40 | 59 | 1,756 |
| | Maluku & IJ | Average | 71 | 51 | 190 | 156 | 235 | 166 | 269 | 224 | 133 | 143 | 43 | 68 | 1,750 |

Source: Land Area by Utilization, 1987-1990, CBS, for Irrigation areas, and JICA-FIDP Team calculation, for others.

Table 4.24 Irrigation Water demand by River Basin (1/3)

(Unit '000,000 m3)

| River Basin Code | Representative Province | Month | | | | | | | | | | | | Annual |
|------------------|-------------------------|-------|-------|------|------|-------|-------|-------|-------|------|-------|-------|-------|---------|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 1010 | D.I.Aceh | 24.8 | 18.5 | 10.5 | 5.0 | 6.5 | 9.2 | 10.3 | 12.8 | 22.9 | 30.7 | 26.9 | 31.4 | 209.5 |
| 1020 | D.I.Aceh | 35.9 | 30.4 | 16.7 | 9.0 | 11.0 | 16.2 | 18.1 | 21.5 | 39.0 | 49.7 | 44.9 | 47.4 | 339.8 |
| 1030 | D.I.Aceh | 59.5 | 52.8 | 27.4 | 13.9 | 14.9 | 24.3 | 27.5 | 32.3 | 54.4 | 70.6 | 78.1 | 73.7 | 529.4 |
| 1040 | D.I.Aceh | 29.7 | 27.7 | 14.4 | 7.3 | 7.4 | 11.7 | 13.0 | 15.5 | 25.1 | 35.2 | 34.8 | 30.1 | 251.9 |
| 1050 | D.I.Aceh | 30.3 | 28.3 | 14.0 | 6.8 | 6.2 | 10.5 | 11.4 | 12.5 | 20.2 | 24.7 | 27.7 | 30.7 | 223.3 |
| 1060 | D.I.Aceh | 27.0 | 23.5 | 8.5 | 4.3 | 6.0 | 10.9 | 12.1 | 12.9 | 22.3 | 25.6 | 20.5 | 34.9 | 208.5 |
| 1071 | D.I.Aceh | 39.5 | 27.9 | 10.6 | 5.5 | 8.3 | 12.8 | 14.8 | 15.6 | 26.1 | 32.6 | 30.4 | 44.4 | 268.5 |
| 1072 | D.I.Aceh | 4.2 | 2.9 | 1.2 | 0.7 | 1.0 | 1.2 | 1.3 | 1.4 | 3.0 | 3.6 | 3.4 | 4.7 | 28.6 |
| 1080 | Sumatera Utara | 116.7 | 95.7 | 40.6 | 33.5 | 65.7 | 89.8 | 87.4 | 71.7 | 64.3 | 78.4 | 91.6 | 103.1 | 938.5 |
| 1090 | Sumatera Utara | 56.7 | 52.0 | 32.2 | 28.1 | 28.1 | 40.1 | 41.6 | 32.4 | 29.5 | 35.9 | 55.3 | 46.4 | 478.3 |
| 1100 | Sumatera Utara | 180.0 | 143.3 | 84.8 | 72.4 | 92.3 | 115.5 | 118.9 | 96.8 | 88.0 | 107.1 | 156.7 | 180.0 | 1,435.8 |
| 1110 | Sumatera Utara | 71.3 | 60.9 | 33.8 | 30.7 | 38.8 | 48.0 | 49.6 | 39.3 | 36.2 | 43.6 | 66.5 | 73.0 | 591.7 |
| 1121 | Sumatera Utara | 11.9 | 9.1 | 5.0 | 4.5 | 6.7 | 8.4 | 8.5 | 7.0 | 6.4 | 8.4 | 10.5 | 11.5 | 97.9 |
| 1122 | Sumatera Utara | 60.2 | 45.9 | 25.3 | 22.8 | 33.9 | 42.6 | 43.0 | 35.7 | 32.7 | 42.7 | 53.1 | 58.3 | 496.2 |
| 1131 | Sumatera Utara | 43.8 | 42.1 | 24.9 | 19.7 | 28.1 | 34.4 | 35.1 | 28.6 | 25.0 | 30.1 | 41.4 | 47.7 | 400.9 |
| 1132 | Sumatera Utara | 29.8 | 29.0 | 14.5 | 14.8 | 27.7 | 36.0 | 36.1 | 28.5 | 27.6 | 34.9 | 39.1 | 34.9 | 352.9 |
| 1141 | Sumatera Utara | 105.5 | 79.2 | 38.4 | 35.8 | 68.6 | 92.9 | 93.1 | 73.6 | 71.0 | 80.7 | 81.8 | 94.8 | 915.4 |
| 1142 | Sumatera Utara | 8.4 | 6.3 | 2.6 | 2.5 | 5.7 | 6.6 | 7.0 | 4.7 | 4.6 | 5.2 | 6.0 | 6.1 | 65.7 |
| 1150 | Riau | 31.3 | 42.7 | 28.9 | 15.8 | 15.6 | 16.4 | 22.9 | 30.7 | 28.1 | 23.9 | 21.8 | 33.8 | 311.9 |
| 1161 | Riau | 3.9 | 4.1 | 3.0 | 1.6 | 1.3 | 1.5 | 2.0 | 2.7 | 2.6 | 2.3 | 2.2 | 4.0 | 31.2 |
| 1162 | Riau | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1171 | Riau | 32.2 | 38.4 | 27.9 | 15.0 | 12.1 | 17.0 | 22.4 | 31.5 | 29.7 | 26.0 | 20.6 | 34.3 | 307.1 |
| 1172 | Riau | 0.3 | 0.4 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 2.5 |
| 1181 | Riau | 94.6 | 105.2 | 81.7 | 37.8 | 42.1 | 51.0 | 63.1 | 88.7 | 81.4 | 74.4 | 67.2 | 103.5 | 890.7 |
| 1182 | Riau | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.8 |
| 1191 | Sumatera Barat | 29.2 | 33.6 | 25.4 | 18.1 | 21.8 | 28.6 | 36.2 | 33.7 | 26.9 | 25.3 | 24.3 | 20.4 | 323.5 |
| 1192 | Sumatera Barat | 4.6 | 3.9 | 3.3 | 2.6 | 3.7 | 4.3 | 4.6 | 3.7 | 4.3 | 3.7 | 3.8 | 3.1 | 45.6 |
| 1201 | Sumatera Barat | 113.1 | 104.4 | 66.4 | 45.2 | 62.8 | 85.2 | 96.2 | 88.9 | 78.2 | 68.3 | 67.2 | 69.1 | 945.0 |
| 1202 | Sumatera Barat | 15.5 | 18.4 | 12.0 | 8.9 | 11.8 | 11.0 | 13.7 | 13.5 | 12.2 | 11.7 | 12.3 | 11.8 | 152.8 |
| 1210 | Jambi | 77.6 | 49.3 | 37.2 | 27.9 | 38.8 | 67.7 | 71.7 | 87.3 | 99.2 | 133.5 | 81.9 | 74.3 | 846.4 |
| 1220 | Sumatera Selatan | 8.9 | 9.6 | 6.1 | 5.0 | 9.9 | 9.0 | 9.3 | 7.0 | 4.6 | 7.7 | 10.3 | 10.2 | 97.6 |
| 1230 | Sumatera Selatan | 1.4 | 2.1 | 1.4 | 1.1 | 1.7 | 1.6 | 1.7 | 1.6 | 1.1 | 1.6 | 1.9 | 1.4 | 18.6 |
| 1241 | Sumatera Selatan | 98.0 | 106.2 | 71.4 | 68.8 | 137.3 | 133.4 | 133.0 | 102.5 | 72.2 | 111.9 | 138.9 | 125.8 | 1,299.4 |
| 1242 | Sumatera Selatan | 5.4 | 6.0 | 2.9 | 2.9 | 4.8 | 4.9 | 5.1 | 4.1 | 2.9 | 4.1 | 5.9 | 4.8 | 53.8 |
| 1250 | Lampung | 28.3 | 19.3 | 11.2 | 16.5 | 20.3 | 25.8 | 27.4 | 20.7 | 17.5 | 42.0 | 48.2 | 31.7 | 308.9 |
| 1261 | Lampung | 98.7 | 72.9 | 50.8 | 78.9 | 91.0 | 100.6 | 104.1 | 82.0 | 72.9 | 170.1 | 193.1 | 117.8 | 1,232.9 |
| 1262 | Lampung | 56.5 | 33.7 | 23.5 | 33.7 | 40.0 | 44.0 | 48.2 | 37.9 | 33.8 | 73.6 | 97.2 | 62.1 | 584.2 |
| 1270 | Lampung | 35.5 | 23.3 | 14.1 | 16.1 | 18.3 | 21.0 | 20.8 | 14.1 | 12.3 | 22.9 | 33.6 | 34.4 | 266.4 |
| 1280 | Bengkulu | 24.5 | 23.4 | 16.8 | 8.2 | 9.8 | 10.3 | 12.8 | 14.5 | 14.5 | 17.5 | 17.9 | 25.4 | 195.6 |
| 1290 | Bengkulu | 18.6 | 17.2 | 13.4 | 6.4 | 6.6 | 8.3 | 10.7 | 11.5 | 10.9 | 13.0 | 15.3 | 19.6 | 151.5 |
| 1300 | Bengkulu | 12.6 | 13.5 | 9.0 | 4.6 | 4.2 | 4.8 | 5.6 | 6.2 | 5.7 | 6.5 | 9.3 | 10.8 | 92.8 |

Table 4.24 Irrigation Water demand by River Basin (2/3)

(Unit '000,000 m3)

| River Basin Code | Representative Province | Month | | | | | | | | | | | | Annual |
|------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 2011 | Jawa Barat | 42.2 | 41.2 | 50.6 | 67.6 | 74.7 | 85.5 | 79.7 | 50.3 | 29.4 | 43.6 | 71.0 | 60.7 | 696.5 |
| 2012 | Jawa Barat | 51.3 | 42.4 | 51.0 | 53.2 | 65.0 | 73.4 | 70.2 | 41.4 | 27.0 | 40.9 | 74.0 | 70.0 | 659.8 |
| 2020 | DKI Jakarta | 114.4 | 114.1 | 131.1 | 43.9 | 119.9 | 158.2 | 175.3 | 174.0 | 80.5 | 30.4 | 79.4 | 239.0 | 1,460.2 |
| 2030 | Jawa Barat | 126.2 | 120.3 | 126.1 | 161.4 | 201.4 | 231.8 | 226.1 | 145.4 | 85.2 | 109.9 | 153.2 | 146.5 | 1,833.5 |
| 2041 | Jawa Barat | 74.4 | 75.9 | 105.0 | 140.9 | 162.4 | 194.1 | 178.7 | 109.7 | 66.4 | 107.2 | 161.3 | 138.6 | 1,514.6 |
| 2042 | Jawa Barat | 528.8 | 462.3 | 476.8 | 558.7 | 683.2 | 856.5 | 754.7 | 450.5 | 267.4 | 398.5 | 592.7 | 616.5 | 6,646.6 |
| 2051 | Jawa Barat | 232.5 | 215.9 | 215.1 | 255.3 | 278.3 | 302.2 | 264.1 | 184.3 | 107.4 | 139.8 | 221.5 | 248.6 | 2,665.0 |
| 2052 | Jawa Barat | 246.5 | 205.5 | 193.7 | 174.0 | 142.3 | 106.7 | 103.1 | 97.4 | 70.0 | 87.1 | 151.0 | 203.9 | 1,781.2 |
| 2060 | Jawa Barat | 91.4 | 80.1 | 111.9 | 171.4 | 211.6 | 261.1 | 232.6 | 139.7 | 84.6 | 141.9 | 210.2 | 157.7 | 1,894.2 |
| 2070 | Jawa Tengah | 120.1 | 135.8 | 108.2 | 132.5 | 139.2 | 147.9 | 136.5 | 112.6 | 79.8 | 133.3 | 181.3 | 143.1 | 1,570.3 |
| 2080 | Jawa Tengah | 164.7 | 153.9 | 189.5 | 243.6 | 255.7 | 255.1 | 233.0 | 180.6 | 125.7 | 226.7 | 349.4 | 238.4 | 2,616.3 |
| 2091 | Jawa Tengah | 77.8 | 83.6 | 59.6 | 62.1 | 69.7 | 94.5 | 87.0 | 76.9 | 57.0 | 83.2 | 93.4 | 75.0 | 919.8 |
| 2092 | Jawa Tengah | 104.5 | 106.7 | 88.1 | 103.8 | 110.8 | 107.8 | 102.2 | 85.7 | 58.1 | 95.9 | 114.0 | 103.0 | 1,180.6 |
| 2101 | Jawa Tengah | 92.5 | 103.3 | 96.9 | 108.0 | 122.8 | 127.2 | 114.5 | 86.6 | 60.2 | 105.9 | 165.0 | 125.7 | 1,308.6 |
| 2102 | Jawa Tengah | 82.4 | 88.9 | 77.1 | 89.5 | 97.1 | 95.3 | 81.7 | 61.8 | 43.0 | 75.6 | 114.0 | 89.6 | 996.0 |
| 2103 | Jawa Tengah | 81.6 | 107.6 | 120.2 | 139.6 | 151.4 | 141.4 | 127.4 | 96.3 | 67.0 | 121.2 | 195.5 | 154.9 | 1,504.1 |
| 2111 | Jawa Tengah | 95.3 | 98.2 | 72.8 | 97.3 | 105.1 | 112.8 | 101.4 | 76.5 | 53.9 | 96.4 | 135.6 | 104.4 | 1,149.7 |
| 2112 | Yogyakarta | 39.5 | 48.7 | 65.1 | 119.5 | 91.3 | 98.9 | 94.0 | 50.2 | 48.7 | 34.8 | 62.2 | 89.5 | 842.4 |
| 2121 | Jawa Tengah | 420.5 | 367.6 | 337.2 | 399.4 | 468.2 | 495.2 | 439.2 | 335.7 | 233.8 | 421.7 | 589.4 | 481.3 | 4,989.2 |
| 2122 | Jawa Tengah | 212.7 | 201.2 | 168.4 | 209.9 | 235.0 | 220.1 | 189.1 | 144.6 | 100.7 | 184.2 | 287.5 | 228.4 | 2,381.8 |
| 2123 | Jawa Timur | 20.2 | 20.4 | 22.0 | 20.6 | 19.4 | 22.5 | 16.4 | 11.9 | 7.5 | 11.0 | 20.2 | 24.8 | 216.9 |
| 2131 | Jawa Timur | 296.8 | 283.3 | 298.8 | 315.7 | 353.9 | 409.4 | 297.3 | 197.1 | 124.8 | 214.5 | 458.7 | 507.8 | 3,758.1 |
| 2132 | Jawa Timur | 153.7 | 146.7 | 154.7 | 129.1 | 151.0 | 199.3 | 151.2 | 102.1 | 64.6 | 104.1 | 182.6 | 204.8 | 1,743.9 |
| 2133 | Jawa Timur | 76.9 | 86.5 | 80.7 | 69.2 | 72.8 | 69.1 | 55.5 | 42.9 | 28.1 | 41.6 | 80.0 | 97.4 | 800.7 |
| 2141 | Jawa Timur | 208.2 | 192.7 | 215.7 | 208.2 | 230.0 | 226.5 | 166.8 | 112.1 | 69.1 | 122.3 | 277.0 | 316.9 | 2,345.5 |
| 2142 | Jawa Timur | 217.0 | 211.7 | 195.4 | 173.6 | 202.2 | 221.9 | 167.1 | 116.8 | 73.8 | 116.8 | 226.2 | 263.9 | 2,186.4 |
| 2143 | Jawa Timur | 235.6 | 201.6 | 201.9 | 205.7 | 192.6 | 174.2 | 144.5 | 104.9 | 64.6 | 111.2 | 259.2 | 296.5 | 2,192.5 |
| 2150 | Jawa Timur | 65.2 | 71.3 | 65.8 | 51.9 | 62.3 | 69.4 | 50.9 | 33.8 | 20.6 | 34.4 | 76.1 | 84.6 | 686.3 |
| 3011 | Bali | 24.1 | 23.4 | 23.9 | 30.6 | 27.8 | 27.8 | 38.2 | 39.7 | 34.8 | 35.0 | 29.5 | 30.1 | 364.9 |
| 3012 | Bali | 139.2 | 143.6 | 165.5 | 186.1 | 152.5 | 144.1 | 193.9 | 229.4 | 199.8 | 173.8 | 138.6 | 146.2 | 2,012.7 |
| 3020 | Nusa Tenggara Barat | 242.2 | 217.8 | 229.7 | 216.4 | 169.0 | 154.4 | 77.8 | 28.2 | 25.5 | 107.9 | 298.3 | 285.2 | 2,052.4 |
| 3030 | Nusa Tenggara Barat | 132.0 | 109.7 | 118.1 | 111.8 | 101.3 | 89.4 | 46.0 | 16.6 | 14.6 | 60.3 | 167.1 | 159.7 | 1,126.6 |
| 3040 | Nusa Tenggara Timur | 34.0 | 33.2 | 38.4 | 46.0 | 43.5 | 36.2 | 41.0 | 35.4 | 29.8 | 26.1 | 19.2 | 23.8 | 406.6 |
| 3050 | Nusa Tenggara Timur | 68.7 | 69.3 | 86.2 | 102.2 | 87.7 | 75.7 | 85.6 | 74.6 | 63.7 | 54.4 | 40.8 | 52.2 | 861.1 |
| 3060 | Nusa Tenggara Timur | 64.6 | 61.0 | 79.6 | 94.0 | 75.7 | 64.7 | 71.7 | 61.7 | 51.3 | 44.3 | 35.2 | 46.5 | 750.3 |
| 3070 | Timor Timur | 17.2 | 16.9 | 20.3 | 22.9 | 16.5 | 15.4 | 19.8 | 17.1 | 14.3 | 12.7 | 9.1 | 12.8 | 195.0 |
| 4010 | Kalimantan Selatan | 7.5 | 14.2 | 16.0 | 21.9 | 20.0 | 9.2 | 5.8 | 3.3 | 3.3 | 8.8 | 7.0 | 5.7 | 122.7 |
| 4021 | Kalimantan Tengah | 114.3 | 132.4 | 85.5 | 50.2 | 40.3 | 59.5 | 71.8 | 53.3 | 34.4 | 39.8 | 72.7 | 100.2 | 854.4 |
| 4022 | Kalimantan Selatan | 38.4 | 76.5 | 90.0 | 116.1 | 124.2 | 80.5 | 48.3 | 22.4 | 21.0 | 48.5 | 32.2 | 21.9 | 720.0 |
| 4030 | Kalimantan Tengah | 29.0 | 35.0 | 21.9 | 14.1 | 10.7 | 13.8 | 17.0 | 13.8 | 6.3 | 10.1 | 17.9 | 25.9 | 215.5 |
| 4040 | Kalimantan Tengah | 17.6 | 19.4 | 12.4 | 8.5 | 6.8 | 8.7 | 9.9 | 7.9 | 4.6 | 5.3 | 10.8 | 13.4 | 125.3 |
| 4050 | Kalimantan Tengah | 7.1 | 7.9 | 4.0 | 3.1 | 2.5 | 3.4 | 3.9 | 2.8 | 1.7 | 2.1 | 4.0 | 6.2 | 48.7 |
| 4061 | Kalimantan Tengah | 7.1 | 8.1 | 4.6 | 3.4 | 2.2 | 3.2 | 3.6 | 3.1 | 1.9 | 2.1 | 4.0 | 5.9 | 49.2 |
| 4062 | Kalimantan Tengah | 13.1 | 14.9 | 8.5 | 6.4 | 4.2 | 6.0 | 6.7 | 5.7 | 3.5 | 3.9 | 7.5 | 11.0 | 91.4 |
| 4070 | Kalimantan Barat | 11.1 | 4.8 | 3.3 | 2.7 | 3.0 | 3.9 | 8.6 | 17.9 | 39.1 | 32.2 | 19.8 | 17.8 | 164.2 |
| 4080 | Kalimantan Barat | 52.8 | 22.6 | 16.0 | 14.0 | 16.9 | 21.6 | 42.2 | 81.0 | 175.8 | 151.1 | 108.1 | 101.7 | 803.8 |
| 4090 | Kalimantan Barat | 11.4 | 7.5 | 5.9 | 4.7 | 4.7 | 6.1 | 11.2 | 22.1 | 50.0 | 39.8 | 25.2 | 21.7 | 210.3 |
| 4100 | Kalimantan Timur | 3.8 | 2.9 | 1.7 | 0.8 | 0.8 | 1.2 | 1.7 | 1.7 | 2.0 | 3.3 | 2.8 | 3.7 | 26.4 |
| 4110 | Kalimantan Timur | 3.0 | 2.5 | 1.4 | 0.8 | 0.9 | 1.4 | 2.2 | 2.1 | 2.2 | 3.1 | 3.0 | 3.5 | 26.1 |
| 4120 | Kalimantan Timur | 1.3 | 1.0 | 0.7 | 0.3 | 0.4 | 0.6 | 0.9 | 1.0 | 1.1 | 1.5 | 1.4 | 1.4 | 11.6 |
| 4130 | Kalimantan Timur | 2.7 | 2.1 | 1.2 | 0.6 | 0.7 | 1.1 | 1.8 | 1.8 | 2.1 | 2.9 | 3.0 | 2.6 | 22.6 |
| 4141 | Kalimantan Timur | 12.2 | 9.6 | 5.3 | 2.8 | 3.4 | 5.5 | 9.3 | 10.3 | 11.3 | 14.6 | 13.2 | 12.9 | 110.4 |
| 4142 | Kalimantan Timur | 4.6 | 3.4 | 1.7 | 1.1 | 1.3 | 1.8 | 2.8 | 3.1 | 4.2 | 6.0 | 5.5 | 5.1 | 40.6 |

Table 4.24 Irrigation Water demand by River Basin (3/3)

(Unit '000,000 m3)

| River Basin Code | Representative Province | Month | | | | | | | | | | | | Annual |
|------------------|-------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|---------|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 5011 | Sulawesi Utara | 15.8 | 16.0 | 17.6 | 18.0 | 18.6 | 17.3 | 23.6 | 24.1 | 22.8 | 23.2 | 20.3 | 18.6 | 235.9 |
| 5012 | Sulawesi Utara | 7.8 | 8.5 | 8.2 | 9.3 | 9.6 | 9.5 | 12.2 | 12.4 | 11.2 | 11.4 | 10.5 | 9.7 | 120.3 |
| 5013 | Sulawesi Utara | 25.1 | 23.4 | 22.8 | 20.6 | 19.5 | 14.9 | 19.6 | 21.8 | 21.4 | 23.1 | 22.0 | 22.2 | 256.4 |
| 5021 | Sulawesi Utara | 9.6 | 10.4 | 12.0 | 12.7 | 11.2 | 10.5 | 15.5 | 15.7 | 13.3 | 12.5 | 12.9 | 13.4 | 149.7 |
| 5022 | Sulawesi Utara | 18.0 | 16.4 | 14.5 | 13.8 | 13.5 | 11.9 | 14.6 | 14.2 | 13.0 | 14.5 | 15.9 | 17.1 | 177.4 |
| 5031 | Sulawesi Utara | 1.8 | 2.0 | 2.3 | 2.4 | 2.1 | 2.0 | 3.0 | 3.0 | 2.5 | 2.4 | 2.5 | 2.6 | 28.6 |
| 5032 | Sulawesi Utara | 23.8 | 21.7 | 19.2 | 18.1 | 17.8 | 15.7 | 19.3 | 18.7 | 17.2 | 19.2 | 21.0 | 22.6 | 234.3 |
| 5041 | Sulawesi Tengah | 36.2 | 36.3 | 45.7 | 42.2 | 41.7 | 44.5 | 51.9 | 57.1 | 52.1 | 44.9 | 37.0 | 42.8 | 532.4 |
| 5042 | Sulawesi Tengah | 48.6 | 46.6 | 47.9 | 37.0 | 33.5 | 34.2 | 36.2 | 43.9 | 43.4 | 38.6 | 37.0 | 48.1 | 495.0 |
| 5050 | Sulawesi Tengah | 32.0 | 27.6 | 25.9 | 15.5 | 17.1 | 21.5 | 28.0 | 34.6 | 32.7 | 26.5 | 23.1 | 31.1 | 315.6 |
| 5061 | Sulawesi Tengah | 5.7 | 5.8 | 5.4 | 3.8 | 2.9 | 2.7 | 2.7 | 3.1 | 4.4 | 5.2 | 4.9 | 6.0 | 52.6 |
| 5062 | Sulawesi Tengah | 13.1 | 13.5 | 12.6 | 8.8 | 6.8 | 6.3 | 6.3 | 7.1 | 10.3 | 12.0 | 11.4 | 14.0 | 122.2 |
| 5070 | Sulawesi Tengah | 27.9 | 25.9 | 25.0 | 18.6 | 15.1 | 10.0 | 12.1 | 20.6 | 22.6 | 22.1 | 21.6 | 25.8 | 247.3 |
| 5080 | Sulawesi Tengah | 12.9 | 11.0 | 10.7 | 7.8 | 8.4 | 8.4 | 10.2 | 13.0 | 15.9 | 14.5 | 11.9 | 13.0 | 137.7 |
| 5091 | Sulawesi Tengah | 78.4 | 77.1 | 79.3 | 61.9 | 60.5 | 64.6 | 74.1 | 81.4 | 74.0 | 66.1 | 62.1 | 77.3 | 856.8 |
| 5092 | Sulawesi Tengah | 37.8 | 37.2 | 38.3 | 29.9 | 29.2 | 31.2 | 35.8 | 39.3 | 35.7 | 31.9 | 30.0 | 37.3 | 413.6 |
| 5101 | Sulawesi Tenggara | 23.4 | 23.2 | 24.4 | 20.7 | 18.9 | 16.2 | 18.0 | 15.9 | 10.5 | 10.3 | 15.4 | 27.9 | 224.8 |
| 5102 | Sulawesi Tenggara | 27.6 | 27.2 | 28.7 | 24.3 | 22.3 | 19.1 | 21.2 | 18.7 | 12.3 | 12.1 | 18.1 | 32.8 | 264.4 |
| 5111 | Sulawesi Tenggara | 17.9 | 17.5 | 17.9 | 18.3 | 16.0 | 12.0 | 15.2 | 14.2 | 9.1 | 8.7 | 13.4 | 21.8 | 182.0 |
| 5112 | Sulawesi Tenggara | 9.4 | 9.0 | 10.8 | 9.4 | 9.0 | 8.0 | 10.3 | 8.4 | 5.0 | 4.8 | 7.2 | 10.8 | 102.1 |
| 5120 | Sulawesi Tenggara | 21.4 | 22.1 | 21.7 | 18.5 | 17.1 | 18.2 | 19.0 | 17.0 | 11.2 | 10.3 | 16.1 | 29.0 | 221.6 |
| 5131 | Sulawesi Selatan | 4.9 | 5.2 | 5.0 | 3.7 | 2.9 | 4.0 | 6.2 | 7.3 | 6.2 | 4.1 | 1.7 | 2.2 | 53.4 |
| 5132 | Sulawesi Selatan | 26.3 | 27.9 | 27.1 | 19.6 | 15.8 | 21.3 | 33.4 | 39.1 | 33.1 | 22.0 | 9.3 | 12.1 | 287.0 |
| 5133 | Sulawesi Selatan | 7.6 | 10.7 | 11.6 | 8.9 | 6.1 | 7.0 | 10.5 | 11.8 | 10.0 | 6.4 | 2.9 | 3.6 | 97.1 |
| 5141 | Sulawesi Selatan | 17.8 | 16.6 | 14.2 | 12.1 | 9.9 | 13.5 | 23.1 | 28.3 | 25.6 | 16.8 | 6.2 | 7.9 | 192.0 |
| 5142 | Sulawesi Selatan | 14.8 | 16.3 | 13.2 | 10.1 | 7.6 | 10.5 | 17.9 | 20.0 | 19.8 | 15.6 | 6.9 | 7.1 | 159.8 |
| 5143 | Sulawesi Selatan | 21.6 | 22.7 | 18.3 | 14.1 | 11.6 | 15.6 | 23.5 | 27.4 | 27.3 | 20.3 | 8.3 | 10.7 | 221.4 |
| 5144 | Sulawesi Selatan | 18.2 | 20.4 | 14.8 | 11.4 | 10.4 | 13.3 | 19.9 | 24.5 | 21.1 | 16.5 | 6.7 | 9.3 | 186.5 |
| 5151 | Sulawesi Selatan | 46.2 | 53.6 | 52.2 | 38.3 | 27.4 | 35.7 | 51.9 | 59.3 | 50.3 | 32.7 | 16.4 | 21.0 | 485.0 |
| 5152 | Sulawesi Selatan | 91.1 | 91.9 | 74.5 | 60.7 | 55.0 | 72.7 | 114.9 | 136.7 | 121.2 | 75.8 | 30.2 | 38.4 | 963.1 |
| 5153 | Sulawesi Selatan | 53.1 | 52.2 | 65.3 | 83.4 | 72.4 | 94.9 | 132.2 | 139.7 | 123.9 | 80.7 | 25.5 | 25.8 | 949.1 |
| 5161 | Sulawesi Selatan | 77.9 | 97.2 | 83.0 | 54.7 | 19.5 | 31.2 | 45.2 | 63.2 | 53.9 | 48.2 | 27.0 | 37.7 | 638.7 |
| 5162 | Sulawesi Selatan | 208.3 | 251.2 | 235.4 | 171.4 | 93.0 | 127.0 | 197.1 | 246.2 | 231.0 | 161.4 | 77.1 | 101.3 | 2,100.4 |
| 5171 | Sulawesi Selatan | 57.4 | 56.1 | 73.4 | 107.1 | 82.0 | 104.0 | 149.5 | 157.0 | 139.6 | 99.9 | 34.3 | 28.9 | 1,089.2 |
| 5172 | Sulawesi Selatan | 154.3 | 173.2 | 150.2 | 99.2 | 43.5 | 72.1 | 123.8 | 194.0 | 177.8 | 130.8 | 60.3 | 70.3 | 1,449.5 |
| 6010 | Maluku | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6020 | Maluku | 7.4 | 5.8 | 19.0 | 13.7 | 15.1 | 6.5 | 13.4 | 12.6 | 9.9 | 13.1 | 4.4 | 6.4 | 127.3 |
| 6030 | Maluku | 0.3 | 0.2 | 0.7 | 0.6 | 0.8 | 0.6 | 0.9 | 0.8 | 0.5 | 0.5 | 0.1 | 0.2 | 6.2 |
| 7010 | Irian Jaya | 0.5 | 0.4 | 1.4 | 1.1 | 1.8 | 1.2 | 2.1 | 1.6 | 0.9 | 1.0 | 0.3 | 0.5 | 12.8 |
| 7020 | Irian Jaya | 0.4 | 0.3 | 1.0 | 1.0 | 1.6 | 1.2 | 1.7 | 1.4 | 0.7 | 0.7 | 0.2 | 0.4 | 10.6 |
| 7030 | Irian Jaya | 0.5 | 0.3 | 1.2 | 0.9 | 1.4 | 0.7 | 1.2 | 0.8 | 0.6 | 0.7 | 0.2 | 0.5 | 9.0 |
| 7040 | Irian Jaya | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.9 |

Source: JICA-FIDP Team calculation

Table 4.25 Annual Water Demand by Basin in 2020 (1/3)

| | | (Unit MCM m3) | | | | | |
|-------------|------------------|---------------|-------------|------------|----------|-----------|----------|
| River Basin | Representative | DMI | River | Irrigation | Fishpond | Livestock | Total |
| Code | Province | | Maintenance | | | | |
| 1010 | D.I.Aceh | 56.0 | 84.5 | 209.5 | 19.7 | 1.0 | 370.7 |
| 1020 | D.I.Aceh | 12.7 | 13.3 | 339.8 | 17.6 | 0.7 | 384.1 |
| 1030 | D.I.Aceh | 51.9 | 68.7 | 529.4 | 23.7 | 1.4 | 675.0 |
| 1040 | D.I.Aceh | 23.9 | 31.6 | 251.9 | 11.7 | 1.7 | 320.8 |
| 1050 | D.I.Aceh | 23.9 | 31.5 | 223.3 | 11.2 | 1.7 | 291.7 |
| 1060 | D.I.Aceh | 12.3 | 10.9 | 208.5 | 14.8 | 1.7 | 248.2 |
| 1071 | D.I.Aceh | 13.9 | 14.0 | 268.5 | 6.9 | 2.7 | 306.0 |
| 1072 | D.I.Aceh | 2.6 | 2.5 | 28.6 | 1.6 | 0.5 | 35.8 |
| 1080 | Sumatera Utara | 22.1 | 17.6 | 938.5 | 17.6 | 5.3 | 1,001.1 |
| 1090 | Sumatera Utara | 165.7 | 161.4 | 478.3 | 13.0 | 3.6 | 821.9 |
| 1100 | Sumatera Utara | 471.6 | 492.4 | 1,435.8 | 21.5 | 3.2 | 2,424.6 |
| 1110 | Sumatera Utara | 31.1 | 38.7 | 591.7 | 6.4 | 1.6 | 669.4 |
| 1121 | Sumatera Utara | 38.7 | 60.5 | 97.9 | 2.7 | 0.5 | 200.3 |
| 1122 | Sumatera Utara | 38.7 | 52.7 | 496.2 | 15.7 | 2.4 | 605.7 |
| 1131 | Sumatera Utara | 37.5 | 51.7 | 400.9 | 14.6 | 4.0 | 508.7 |
| 1132 | Sumatera Utara | 27.2 | 33.8 | 352.9 | 15.7 | 4.2 | 433.9 |
| 1141 | Sumatera Utara | 31.9 | 29.4 | 915.4 | 45.3 | 7.2 | 1,029.3 |
| 1142 | Sumatera Utara | 17.7 | 13.0 | 65.7 | 1.2 | 2.5 | 100.2 |
| 1150 | Riau | 34.9 | 32.1 | 311.9 | 34.9 | 4.8 | 418.6 |
| 1161 | Riau | 62.5 | 86.7 | 31.2 | 8.5 | 1.7 | 190.6 |
| 1162 | Riau | 10.3 | 11.0 | 0.0 | 1.8 | 0.6 | 23.7 |
| 1171 | Riau | 135.6 | 123.9 | 307.1 | 40.9 | 4.0 | 611.4 |
| 1172 | Riau | 49.4 | 78.4 | 2.5 | 1.3 | 0.4 | 132.0 |
| 1181 | Riau | 73.4 | 81.2 | 890.7 | 77.9 | 6.9 | 1,130.1 |
| 1182 | Riau | 14.5 | 21.7 | 0.8 | 0.8 | 0.4 | 38.2 |
| 1191 | Sumatera Barat | 16.5 | 14.6 | 323.5 | 6.1 | 3.8 | 364.5 |
| 1192 | Sumatera Barat | 3.8 | 4.4 | 45.6 | 3.6 | 0.8 | 58.2 |
| 1201 | Sumatera Barat | 135.0 | 131.9 | 945.0 | 57.7 | 4.6 | 1,274.3 |
| 1202 | Sumatera Barat | 9.7 | 11.3 | 152.8 | 9.3 | 2.0 | 185.0 |
| 1210 | Jambi | 186.3 | 165.4 | 846.4 | 137.2 | 12.3 | 1,347.6 |
| 1220 | Sumatera Selatan | 19.8 | 19.0 | 97.6 | 11.2 | 2.9 | 150.6 |
| 1230 | Sumatera Selatan | 44.6 | 57.3 | 18.6 | 78.3 | 4.6 | 203.5 |
| 1241 | Sumatera Selatan | 403.0 | 357.2 | 1,299.4 | 136.1 | 16.8 | 2,212.5 |
| 1242 | Sumatera Selatan | 35.8 | 37.2 | 53.8 | 41.2 | 4.9 | 172.8 |
| 1250 | Lampung | 46.2 | 15.7 | 308.9 | 118.3 | 10.6 | 499.7 |
| 1261 | Lampung | 44.5 | 24.6 | 1,232.9 | 37.0 | 6.7 | 1,345.7 |
| 1262 | Lampung | 85.9 | 95.9 | 584.2 | 34.3 | 4.3 | 804.6 |
| 1270 | Lampung | 46.2 | 34.7 | 266.4 | 60.0 | 5.4 | 412.7 |
| 1280 | Bengkulu | 70.4 | 108.4 | 195.6 | 50.1 | 4.4 | 428.9 |
| 1290 | Bengkulu | 13.7 | 8.8 | 151.5 | 30.9 | 3.6 | 208.5 |
| 1300 | Bengkulu | 8.4 | 3.6 | 92.8 | 18.3 | 2.4 | 125.6 |
| | Sumatera | 2,629.5 | 2,733.3 | 15,992.0 | 1,256.6 | 154.8 | 22,766.3 |

Table 4.25 Annual Water Demand by Basin in 2020 (2/3)

| (Unit MCM m3) | | | | | | | |
|------------------|-------------------------|---------|-------------------|------------|----------|-----------|----------|
| River Basin Code | Representative Province | DMI | River Maintenance | Irrigation | Fishpond | Livestock | Total |
| 2011 | Jawa Barat | 47.0 | 48.1 | 696.5 | 11.0 | 3.5 | 806.0 |
| 2012 | Jawa Barat | 64.3 | 79.2 | 659.8 | 8.5 | 3.5 | 815.3 |
| 2020 | DKI.Jakarta | 2,526.5 | 2,688.8 | 1,460.2 | 34.2 | 5.3 | 6,715.0 |
| 2030 | Jawa Barat | 288.0 | 245.7 | 1,833.5 | 84.7 | 14.3 | 2,466.2 |
| 2041 | Jawa Barat | 684.7 | 708.0 | 1,514.6 | 83.4 | 5.8 | 2,996.4 |
| 2042 | Jawa Barat | 1,038.8 | 1,058.4 | 6,646.6 | 70.9 | 11.1 | 8,825.8 |
| 2051 | Jawa Barat | 162.2 | 137.6 | 2,665.0 | 52.9 | 6.1 | 3,023.8 |
| 2052 | Jawa Barat | 316.1 | 320.6 | 1,781.2 | 79.3 | 3.9 | 2,501.0 |
| 2060 | Jawa Barat | 201.6 | 164.9 | 1,894.2 | 186.5 | 9.2 | 2,456.5 |
| 2070 | Jawa Tengah | 164.2 | 134.0 | 1,570.3 | 99.3 | 9.0 | 1,976.9 |
| 2080 | Jawa Tengah | 515.6 | 517.6 | 2,616.3 | 1.4 | 10.4 | 3,661.3 |
| 2091 | Jawa Tengah | 159.6 | 133.8 | 919.8 | 18.2 | 7.9 | 1,239.2 |
| 2092 | Jawa Tengah | 83.6 | 83.7 | 1,180.6 | 10.1 | 7.8 | 1,365.8 |
| 2101 | Jawa Tengah | 297.0 | 290.5 | 1,308.6 | 0.5 | 6.6 | 1,903.2 |
| 2102 | Jawa Tengah | 153.7 | 138.9 | 996.0 | 2.0 | 8.0 | 1,298.6 |
| 2103 | Jawa Tengah | 212.4 | 207.5 | 1,504.1 | 1.1 | 7.5 | 1,932.6 |
| 2111 | Jawa Tengah | 89.2 | 109.3 | 1,149.7 | 25.9 | 6.2 | 1,380.3 |
| 2112 | Yogyakarta | 197.0 | 196.3 | 842.4 | 6.4 | 6.7 | 1,248.8 |
| 2121 | Jawa Tengah | 450.9 | 404.0 | 4,989.2 | 3.3 | 19.8 | 5,867.2 |
| 2122 | Jawa Tengah | 189.5 | 145.2 | 2,381.8 | 9.5 | 15.1 | 2,741.2 |
| 2123 | Jawa Timur | 12.2 | 7.3 | 216.9 | 0.1 | 3.0 | 239.5 |
| 2131 | Jawa Timur | 863.8 | 885.4 | 3,758.1 | 3.0 | 11.6 | 5,521.9 |
| 2132 | Jawa Timur | 353.1 | 341.3 | 1,743.9 | 1.9 | 10.8 | 2,451.0 |
| 2133 | Jawa Timur | 67.1 | 82.5 | 800.7 | 0.8 | 5.7 | 956.8 |
| 2141 | Jawa Timur | 210.2 | 190.6 | 2,345.5 | 0.2 | 8.8 | 2,755.3 |
| 2142 | Jawa Timur | 95.6 | 106.6 | 2,186.4 | 2.0 | 9.5 | 2,400.1 |
| 2143 | Jawa Timur | 69.9 | 75.5 | 2,192.5 | 0.9 | 9.4 | 2,348.2 |
| 2150 | Jawa Timur | 93.2 | 83.9 | 686.3 | 7.3 | 10.5 | 881.2 |
| | Jawa | 9,607.0 | 9,585.4 | 52,540.7 | 805.4 | 237.0 | 72,775.4 |
| 3011 | Bali | 20.9 | 22.0 | 364.9 | 0.3 | 5.5 | 413.5 |
| 3012 | Bali | 176.8 | 171.8 | 2,012.7 | 3.4 | 15.2 | 2,379.9 |
| 3020 | Nusa Tenggara Barat | 100.0 | 106.9 | 2,052.4 | 5.2 | 5.0 | 2,269.4 |
| 3030 | Nusa Tenggara Barat | 38.6 | 37.1 | 1,126.6 | 10.9 | 16.9 | 1,230.1 |
| 3040 | Nusa Tenggara Timur | 21.6 | 25.8 | 406.6 | 6.6 | 8.0 | 468.6 |
| 3050 | Nusa Tenggara Timur | 43.9 | 43.4 | 861.1 | 2.6 | 11.0 | 961.9 |
| 3060 | Nusa Tenggara Timur | 55.6 | 53.7 | 750.3 | 14.2 | 14.6 | 888.3 |
| 3070 | Timor Timur | 28.2 | 19.0 | 195.0 | 0.4 | 7.2 | 249.7 |
| | Bali & NT | 485.5 | 479.6 | 7,769.6 | 43.5 | 83.4 | 8,861.6 |
| 4010 | Kalimantan Selatan | 36.2 | 46.0 | 122.7 | 26.0 | 5.3 | 236.3 |
| 4021 | Kalimantan Tengah | 11.3 | 10.7 | 854.4 | 75.3 | 0.9 | 952.6 |
| 4022 | Kalimantan Selatan | 163.2 | 143.8 | 720.0 | 292.2 | 6.6 | 1,325.8 |
| 4030 | Kalimantan Tengah | 19.5 | 25.0 | 215.5 | 21.1 | 0.3 | 281.4 |
| 4040 | Kalimantan Tengah | 21.7 | 29.8 | 125.3 | 10.2 | 0.5 | 187.5 |
| 4050 | Kalimantan Tengah | 9.1 | 11.5 | 48.7 | 3.5 | 0.3 | 73.1 |
| 4061 | Kalimantan Tengah | 9.6 | 12.6 | 49.2 | 3.4 | 0.3 | 75.1 |
| 4062 | Kalimantan Tengah | 27.7 | 42.4 | 91.4 | 2.7 | 0.7 | 164.8 |
| 4070 | Kalimantan Barat | 18.1 | 17.8 | 164.2 | 10.8 | 2.0 | 212.9 |
| 4080 | Kalimantan Barat | 156.8 | 137.7 | 803.8 | 184.1 | 5.6 | 1,288.1 |
| 4090 | Kalimantan Barat | 32.0 | 28.5 | 210.3 | 5.2 | 0.8 | 276.8 |
| 4100 | Kalimantan Timur | 8.2 | 13.0 | 26.4 | 2.7 | 0.9 | 51.3 |
| 4110 | Kalimantan Timur | 8.6 | 13.7 | 26.1 | 2.8 | 0.9 | 52.1 |
| 4120 | Kalimantan Timur | 4.7 | 7.2 | 11.6 | 0.5 | 0.5 | 24.5 |
| 4130 | Kalimantan Timur | 18.1 | 29.9 | 22.6 | 2.8 | 0.6 | 74.0 |
| 4141 | Kalimantan Timur | 149.8 | 159.0 | 110.4 | 16.5 | 2.2 | 437.8 |
| 4142 | Kalimantan Timur | 74.0 | 91.8 | 40.6 | 93.1 | 0.6 | 300.0 |
| | Kalimantan | 768.4 | 820.4 | 3,643.2 | 752.9 | 29 | 6,013.9 |

Table 4.25 Annual Water Demand by Basin in 2020 (3/3)

| | | (Unit MCM m3) | | | | | |
|-------------------|-------------------|---------------|---------------|---------------|--------------|------------|----------------|
| River Basin | Representative | DMI | River | Irrigation | Fishpond | Livestock | Total |
| Code | Province | | Maintenance | | | | |
| 5011 | Sulawesi Utara | 57.0 | 83.7 | 235.9 | 24.2 | 1.9 | 402.7 |
| 5012 | Sulawesi Utara | 4.8 | 5.6 | 120.3 | 3.2 | 1.2 | 135.1 |
| 5013 | Sulawesi Utara | 18.4 | 15.3 | 256.4 | 17.0 | 3.3 | 310.4 |
| 5021 | Sulawesi Utara | 6.5 | 7.2 | 149.7 | 4.5 | 1.7 | 169.5 |
| 5022 | Sulawesi Utara | 16.8 | 23.2 | 177.4 | 4.8 | 1.9 | 224.1 |
| 5031 | Sulawesi Utara | 1.7 | 1.5 | 28.6 | 1.2 | 0.6 | 33.6 |
| 5032 | Sulawesi Utara | 10.8 | 9.8 | 234.3 | 8.5 | 3.4 | 266.8 |
| 5041 | Sulawesi Tengah | 16.0 | 17.7 | 532.4 | 6.7 | 6.0 | 578.7 |
| 5042 | Sulawesi Tengah | 13.9 | 19.2 | 495.0 | 6.7 | 2.8 | 537.6 |
| 5050 | Sulawesi Tengah | 13.6 | 18.8 | 315.6 | 5.0 | 6.3 | 359.3 |
| 5061 | Sulawesi Tengah | 3.5 | 4.8 | 52.6 | 0.8 | 2.3 | 63.9 |
| 5062 | Sulawesi Tengah | 8.3 | 10.9 | 122.2 | 1.4 | 3.7 | 146.5 |
| 5070 | Sulawesi Tengah | 13.4 | 17.3 | 247.3 | 2.1 | 5.3 | 285.4 |
| 5080 | Sulawesi Tengah | 8.8 | 12.1 | 137.7 | 2.1 | 6.4 | 167.1 |
| 5091 | Sulawesi Tengah | 23.1 | 31.2 | 856.8 | 12.0 | 5.6 | 928.6 |
| 5092 | Sulawesi Tengah | 13.0 | 15.6 | 413.6 | 4.9 | 4.0 | 451.1 |
| 5101 | Sulawesi Tenggara | 17.2 | 22.7 | 224.8 | 5.1 | 4.0 | 273.9 |
| 5102 | Sulawesi Tenggara | 17.5 | 20.7 | 264.4 | 20.9 | 3.8 | 327.3 |
| 5111 | Sulawesi Tenggara | 21.3 | 29.9 | 182.0 | 16.5 | 3.4 | 253.0 |
| 5112 | Sulawesi Tenggara | 30.9 | 42.7 | 102.1 | 22.3 | 4.8 | 202.9 |
| 5120 | Sulawesi Tenggara | 10.6 | 9.1 | 221.6 | 39.1 | 3.2 | 283.6 |
| 5131 | Sulawesi Selatan | 3.0 | 1.7 | 53.4 | 0.3 | 2.0 | 60.4 |
| 5132 | Sulawesi Selatan | 7.3 | 5.7 | 287.0 | 4.8 | 3.4 | 308.2 |
| 5133 | Sulawesi Selatan | 6.9 | 7.4 | 97.1 | 0.6 | 2.0 | 114.0 |
| 5141 | Sulawesi Selatan | 3.6 | 2.5 | 192.0 | 4.6 | 1.7 | 204.4 |
| 5142 | Sulawesi Selatan | 3.4 | 2.3 | 159.8 | 4.3 | 1.6 | 171.4 |
| 5143 | Sulawesi Selatan | 4.3 | 3.0 | 221.4 | 5.4 | 2.1 | 236.2 |
| 5144 | Sulawesi Selatan | 4.4 | 3.7 | 186.5 | 5.8 | 2.0 | 202.4 |
| 5151 | Sulawesi Selatan | 11.8 | 15.2 | 485.0 | 3.1 | 1.6 | 516.7 |
| 5152 | Sulawesi Selatan | 17.6 | 14.9 | 963.1 | 4.6 | 3.7 | 1,004.0 |
| 5153 | Sulawesi Selatan | 23.1 | 24.4 | 949.1 | 2.8 | 1.9 | 1,001.3 |
| 5161 | Sulawesi Selatan | 11.0 | 11.1 | 638.7 | 22.5 | 2.3 | 685.6 |
| 5162 | Sulawesi Selatan | 25.8 | 24.8 | 2,100.4 | 21.9 | 4.2 | 2,177.1 |
| 5171 | Sulawesi Selatan | 203.8 | 204.9 | 1,089.2 | 59.7 | 2.2 | 1,559.8 |
| 5172 | Sulawesi Selatan | 32.9 | 28.7 | 1,449.5 | 4.6 | 3.7 | 1,519.4 |
| | Sulawesi | 685.7 | 769.3 | 14,242.9 | 354.2 | 110 | 16,162.2 |
| 6010 | Maluku | 15.2 | 20.6 | 0.0 | 0.0 | 1.5 | 37.4 |
| 6020 | Maluku | 59.0 | 80.7 | 127.3 | 0.0 | 2.2 | 269.1 |
| 6030 | Maluku | 44.5 | 56.7 | 6.2 | 0.0 | 2.5 | 109.9 |
| 7010 | Irian Jaya | 29.8 | 38.3 | 12.8 | 0.0 | 0.5 | 81.5 |
| 7020 | Irian Jaya | 48.7 | 56.1 | 10.6 | 0.0 | 0.7 | 116.1 |
| 7030 | Irian Jaya | 16.4 | 15.3 | 9.0 | 0.0 | 0.5 | 41.3 |
| 7040 | Irian Jaya | 11.6 | 14.4 | 15.9 | 0.0 | 0.4 | 42.3 |
| | Maluku & IJ | 225.3 | 282.2 | 181.8 | 0.0 | 8.3 | 697.6 |
| INDOONESIA | | 14,401 | 14,670 | 94,370 | 3,213 | 623 | 127,277 |

Source: JICA-FIDP Team Calculation.

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (1/7)

| Projection Year = 1990 | Basin Area = 2,499 km ² | River Basin Code = 2012 | | | | | | | | | | | | Province = Jawa Barat | |
|------------------------------------|------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|--------|
| Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | | |
| Water Resources | | | | | | | | | | | | | | | |
| Runoff(Rne=20) | (mm/month) | 144 | 126 | 127 | 132 | 100 | 48 | 55 | 58 | 91 | 100 | 117 | | | |
| Supply Water | (1000m ³) | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 119,952 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | | | |
| D.M.I Water | | | | | | | | | | | | | | | |
| Population | Urban | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | 240,306 | |
| | Rural | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | 1,289,649 | |
| Water Demand | Urban | 1,117 | 1,009 | 1,117 | 1,081 | 1,117 | 1,117 | 1,117 | 1,081 | 1,117 | 1,081 | 1,117 | 1,117 | 1,117 | |
| | Rural | 1,199 | 1,083 | 1,199 | 1,161 | 1,199 | 1,199 | 1,199 | 1,161 | 1,199 | 1,161 | 1,199 | 1,199 | 1,199 | |
| Maintenance Water | 330 | 2,458 | 2,220 | 2,458 | 2,379 | 2,458 | 2,458 | 2,458 | 2,379 | 2,458 | 2,379 | 2,458 | 2,379 | 2,458 | |
| Fishpond Water | | | | | | | | | | | | | | | |
| Fishpond Area | (ha) | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| Water Consumption | (mm/month) | 217 | 203 | 217 | 210 | 217 | 217 | 217 | 210 | 217 | 210 | 217 | 210 | 217 | |
| Water Demand | (1000m ³) | 723 | 676 | 723 | 699 | 723 | 723 | 723 | 699 | 723 | 699 | 723 | 699 | 723 | |
| Livestock Water | | | | | | | | | | | | | | | |
| Cattle/Bufalo/Horse | (1000heads) | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | |
| Water Consumption | (m ³ /head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.24 | 1.24 | 1.24 | 1.20 | 1.24 | 1.24 | 1.20 | 1.24 | |
| Water Demand | (1000m ³) | 52 | 49 | 52 | 50 | 52 | 52 | 52 | 52 | 50 | 52 | 52 | 50 | 52 | |
| Sheep/Goat | (1000heads) | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 | |
| Water Consumption | (m ³ /head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | |
| Water Demand | (1000m ³) | 41.18 | 38.53 | 41.18 | 39.86 | 41.18 | 41.18 | 41.18 | 39.86 | 41.18 | 39.86 | 41.18 | 39.86 | 41.18 | |
| Pig | (1000heads) | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | |
| Water Consumption | (m ³ /head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | |
| Water Demand | (1000m ³) | 0.35 | 0.32 | 0.35 | 0.34 | 0.35 | 0.35 | 0.35 | 0.34 | 0.35 | 0.34 | 0.35 | 0.34 | 0.35 | |
| Poultry | (1000heads) | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | 2,496.6 | |
| Water Consumption | (m ³ /head/month) | 0.0186 | 0.0174 | 0.0186 | 0.0180 | 0.0186 | 0.0186 | 0.0186 | 0.0180 | 0.0186 | 0.0180 | 0.0186 | 0.0180 | 0.0186 | |
| Water Demand | (1000m ³) | 46.44 | 43.94 | 46.44 | 44.94 | 46.44 | 46.44 | 46.44 | 44.94 | 46.44 | 44.94 | 46.44 | 44.94 | 46.44 | |
| Total Water Demand | (1000m ³) | 140 | 126 | 140 | 135 | 140 | 140 | 140 | 135 | 140 | 135 | 140 | 135 | 140 | |
| Irrigation Water | | | | | | | | | | | | | | | |
| Irrigation Area | (ha) | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | |
| Irrigation Diversion Water | (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 232 | 137 | 89 | 135 | 245 | 231 | 245 | 231 | |
| Irrigation Water Demand | (1000m ³) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 70,160 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | 73,972 | 70,028 | |
| Water Balance (Water Potential) | (1000m ³) | 302,871 | 267,357 | 260,724 | 271,250 | 179,230 | 73,577 | 90,372 | 112,473 | 180,884 | 170,472 | 216,718 | 170,472 | 216,718 | |
| Potential Area | (ha) | 178,453 | 190,657 | 154,630 | 154,365 | 83,381 | 30,324 | 65,984 | 125,968 | 133,842 | 69,722 | 93,629 | 133,842 | 69,722 | 93,629 |
| Water Potential Area = | | 19,040 ha | | | | | | | | | | | | | |
| Land Potential Area = | | 34,300 ha | | | | | | | | | | | | | |
| Irrigation Potential Area = | | 19,040 ha | | | | | | | | | | | | | |
| | | Total | | Rainfed | | S | | S | | \$ | | \$ | | | |
| | | 34,300 ha | | 9,500 | | 400 | | 400 | | 900 | | 23,500 ha | | | |
| | | 19,040 ha | | 9,500 | | 400 | | 400 | | 900 | | 8,498 ha | | | |

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (2/7)

| Projection Year = 1995 | Basin Area = 2,499 km ² | River Basin Code = 2012 | | | | | | | | | | | |
|---|------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | Province = Jawa Barat | | | | | | | | | | | |
| Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Water Resources | | | | | | | | | | | | | |
| Runoff(Rne=20) | (mm/month) | 144 | 126 | 127 | 132 | 100 | 48 | 55 | 58 | 91 | 100 | 117 | |
| Supply Water | (1000m ³) | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | |
| D.M.I Water | | | | | | | | | | | | | |
| Population | Urban | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | 313,048 | |
| | Rural | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | 1,312,596 | |
| Water Demand | Urban | 1,456 | 1,315 | 1,456 | 1,409 | 1,456 | 1,409 | 1,456 | 1,409 | 1,456 | 1,409 | 1,456 | |
| | Rural | 1,221 | 1,103 | 1,221 | 1,181 | 1,221 | 1,181 | 1,221 | 1,181 | 1,221 | 1,181 | 1,221 | |
| Maintenance Water | (1000m ³) | 3,202 | 2,893 | 3,202 | 3,099 | 3,202 | 3,099 | 3,202 | 3,099 | 3,202 | 3,099 | 3,202 | |
| Fishpond Water | | | | | | | | | | | | | |
| Fishpond Area | (ha) | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| Water Consumption | (mm/month) | 217 | 203 | 217 | 210 | 217 | 217 | 217 | 210 | 217 | 210 | 217 | |
| Water Demand | (1000m ³) | 723 | 676 | 723 | 699 | 723 | 723 | 723 | 699 | 723 | 699 | 723 | |
| Livestock Water | | | | | | | | | | | | | |
| Cattle/Bufalo/Horse | (1000heads) | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | |
| Water Consumption | (m ³ /head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.24 | 1.24 | 1.24 | 1.20 | 1.24 | 1.20 | |
| Water Demand | (1000m ³) | 55 | 52 | 55 | 53 | 55 | 55 | 55 | 55 | 53 | 55 | 53 | |
| Sheep/Goat | (1000heads) | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | 351.8 | |
| Water Consumption | (m ³ /head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | |
| Water Demand | (1000m ³) | 54.53 | 51.01 | 54.53 | 52.77 | 54.53 | 52.77 | 54.53 | 52.77 | 54.53 | 52.77 | 54.53 | |
| Pig | (1000heads) | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | |
| Water Consumption | (m ³ /head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | |
| Water Demand | (1000m ³) | 32 | 30 | 32 | 31 | 32 | 32 | 32 | 31 | 32 | 31 | 32 | |
| Poultry | (1000heads) | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | 3,042.0 | |
| Water Consumption | (m ³ /head/month) | 0.0186 | 0.0174 | 0.0186 | 0.018 | 0.0186 | 0.0186 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | |
| Water Demand | (1000m ³) | 56.58 | 51.11 | 56.58 | 54.76 | 56.58 | 54.76 | 56.58 | 54.76 | 56.58 | 54.76 | 56.58 | |
| Total Water Demand | (1000m ³) | 167 | 150 | 167 | 161 | 167 | 161 | 167 | 161 | 167 | 161 | 167 | |
| Irrigation Water | | | | | | | | | | | | | |
| Irrigation Area | (ha) | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | |
| Irrigation Diversion Water | (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 243 | 137 | 89 | 135 | 245 | 231 | |
| Irrigation Water Demand | (1000m ³) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | |
| Water Balance (Water Potential) | (1000m ³) | 301,741 | 266,336 | 259,593 | 270,156 | 178,100 | 72,483 | 89,241 | 111,379 | 179,753 | 169,378 | 215,587 | |
| Potential Area | (ha) | 177,787 | 189,929 | 153,960 | 153,742 | 82,855 | 29,873 | 65,159 | 124,743 | 133,005 | 69,274 | 93,140 | |
| Water Potential Area = 18,553 ha | | | | | | | | | | | | | |
| Total | | 9,500 | | 9,500 | | 900 | | \$ | | \$ | | | |
| Land Potential Area = | 34,300 ha | | | | | | | | | | | | |
| Irrigation Potential Area = | 18,553 ha | 9,500 | | 900 | | 900 | | 7,753 ha | | | | | |

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (3/7)

| Projection Year = 2000 | Basin Area = 2,499 km ² | River Basin Code = 2012 | | | | | | | | | | | |
|---------------------------------|------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | Province = Jawa Barat | | | | | | | | | | | |
| Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Water Resources | | | | | | | | | | | | | |
| Runoff(Run=20) | (mm/month) | 144 | 126 | 127 | 132 | 100 | 48 | 55 | 58 | 91 | 100 | 117 | |
| Supply Water | (1000m ³) | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | |
| D.M.I Water | | | | | | | | | | | | | |
| Population | Urban | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | 392,721 | |
| | Rural | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | 1,299,258 | |
| Water Demand | (1000m ³) | 2,070 | 1,869 | 2,070 | 2,003 | 2,070 | 2,070 | 2,070 | 2,003 | 2,070 | 2,003 | 2,070 | |
| | Rural | 1,531 | 1,382 | 1,531 | 1,481 | 1,531 | 1,481 | 1,531 | 1,481 | 1,531 | 1,481 | 1,531 | |
| Maintenance Water | (1000m ³) | 4,383 | 3,959 | 4,383 | 4,241 | 4,383 | 4,241 | 4,383 | 4,241 | 4,383 | 4,241 | 4,383 | |
| Fishpond Water | | | | | | | | | | | | | |
| Fishpond Area | (ha) | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| Water Consumption | (mm/month) | 217 | 203 | 217 | 210 | 217 | 210 | 217 | 210 | 217 | 210 | 217 | |
| Water Demand | (1000m ³) | 723 | 676 | 723 | 699 | 723 | 699 | 723 | 699 | 723 | 699 | 723 | |
| Livestock Water | | | | | | | | | | | | | |
| Cattle/Bufallo/Horse | (1000heads) | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | |
| Water Consumption | (m ³ /head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | |
| Water Demand | (1000m ³) | 59 | 55 | 59 | 57 | 59 | 57 | 59 | 57 | 59 | 57 | 59 | |
| Sheep/Goat | (1000heads) | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | 437.9 | |
| Water Consumption | (m ³ /head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | |
| Water Demand | (1000m ³) | 67.87 | 63.50 | 67.87 | 65.69 | 67.87 | 65.69 | 67.87 | 65.69 | 67.87 | 65.69 | 67.87 | |
| Pig | (1000heads) | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Water Consumption | (m ³ /head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | |
| Water Demand | (1000m ³) | 26 | 24 | 26 | 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 | |
| Poultry | (1000heads) | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | 3,587.3 | |
| Water Consumption | (m ³ /head/month) | 0.0186 | 0.0174 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | |
| Water Demand | (1000m ³) | 66.72 | 60.27 | 66.72 | 64.57 | 66.72 | 64.57 | 66.72 | 64.57 | 66.72 | 64.57 | 66.72 | |
| Total Water Demand | (1000m ³) | 193 | 175 | 193 | 187 | 193 | 187 | 193 | 187 | 193 | 187 | 193 | |
| Irrigation Water | | | | | | | | | | | | | |
| Irrigation Area | (ha) | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | |
| Irrigation Diversion Water | (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 243 | 137 | 89 | 135 | 245 | 231 | |
| Irrigation Water Demand | (1000m ³) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | |
| Water Balance (Water Potential) | (1000m ³) | 299,610 | 264,411 | 257,463 | 268,094 | 175,969 | 70,421 | 87,110 | 109,317 | 177,623 | 167,316 | 213,457 | |
| Potential Area | (ha) | 176,532 | 188,557 | 152,696 | 152,569 | 81,864 | 29,023 | 63,603 | 122,434 | 131,428 | 68,431 | 92,220 | |
| Water Potential Area = | 17,634 ha | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | |
| Land Potential Area = | 34,300 ha | | | | | | | | | | | | |
| Irrigation Potential Area = | 17,634 ha | | | | | | | | | | | | |
| | | | | Rainfed | S | \$ | \$ | \$ | \$ | \$ | \$ | \$ | |
| | | | | 9,500 | 400 | 900 | 23,500 ha | | | | | | |
| | | | | 9,500 | 400 | 900 | 6,834 ha | | | | | | |

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (4/7)

| Projection Year = 2005 | Basin Area = 2,499 km ² | Province = Jawa Barat | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | | | | |
| Water Resources | | | | | | | | | | | | | | | | | | |
| Runoff(Roe=20) | (mm/month) | 144 | 126 | 127 | 132 | 100 | 61 | 48 | 55 | 58 | 91 | 100 | 117 | | | | | |
| Supply Water | (1000m ³) | 359,836 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 119,952 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | | | | | |
| D.M.I Water | | | | | | | | | | | | | | | | | | |
| Population | Urban | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | 459,921 | | | | | |
| | Rural | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | 1,317,815 | | | | | |
| Water Demand | Urban | 2,424 | 2,189 | 2,424 | 2,346 | 2,424 | 2,346 | 2,424 | 2,424 | 2,346 | 2,424 | 2,346 | 2,424 | | | | | |
| | Rural | 1,552 | 1,402 | 1,552 | 1,502 | 1,552 | 1,502 | 1,552 | 1,552 | 1,502 | 1,552 | 1,502 | 1,552 | | | | | |
| Maintenance Water | (1000m ³) | 5,133 | 4,636 | 5,133 | 4,967 | 5,133 | 4,967 | 5,133 | 5,133 | 4,967 | 5,133 | 4,967 | 5,133 | | | | | |
| Fishpond Water | | | | | | | | | | | | | | | | | | |
| Fishpond Area | (ha) | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | | | | | |
| Water Consumption | (mm/month) | 217 | 203 | 217 | 210 | 217 | 210 | 217 | 217 | 210 | 217 | 210 | 217 | | | | | |
| Water Demand | (1000m ³) | 723 | 676 | 723 | 699 | 723 | 699 | 723 | 723 | 699 | 723 | 699 | 723 | | | | | |
| Livestock Water | | | | | | | | | | | | | | | | | | |
| Cattle/Bufalo/Horse | (1000heads) | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | | | | | |
| Water Consumption | (m ³ /head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | | | | | |
| Water Demand | (1000m ³) | 62 | 58 | 62 | 60 | 62 | 60 | 62 | 62 | 60 | 62 | 60 | 62 | | | | | |
| Sheep/Goat | (1000heads) | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | 523.9 | | | | | |
| Water Consumption | (m ³ /head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | | | | | |
| Water Demand | (1000m ³) | 81.20 | 75.97 | 81.20 | 78.59 | 81.20 | 78.59 | 81.20 | 81.20 | 78.59 | 81.20 | 78.59 | 81.20 | | | | | |
| Pig | (1000heads) | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | | | | | |
| Water Consumption | (m ³ /head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | | | | | |
| Water Demand | (1000m ³) | 0.22 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | | | | | |
| Poultry | (1000heads) | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | 4,132.7 | | | | | |
| Water Consumption | (m ³ /head/month) | 0.0186 | 0.0174 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | | | | | |
| Water Demand | (1000m ³) | 76.87 | 69.43 | 76.87 | 74.39 | 76.87 | 74.39 | 76.87 | 76.87 | 74.39 | 76.87 | 74.39 | 76.87 | | | | | |
| Total Water Demand | (1000m ³) | 220 | 199 | 220 | 213 | 220 | 213 | 220 | 220 | 213 | 220 | 213 | 220 | | | | | |
| Irrigation Water | | | | | | | | | | | | | | | | | | |
| Irrigation Area | (ha) | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | | | | | |
| Irrigation Diversion Water | (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 243 | 232 | 137 | 89 | 135 | 245 | 231 | | | | | |
| Irrigation Water Demand | (1000m ³) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 70,160 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | | | | | |
| Water Balance (Water Potential) | (1000m ³) | 298,457 | 263,370 | 256,310 | 266,978 | 174,817 | 69,305 | 39,740 | 85,958 | 108,202 | 176,470 | 166,201 | 212,304 | | | | | |
| Potential Area | (ha) | 175,853 | 187,814 | 152,013 | 151,994 | 81,328 | 28,564 | 17,137 | 62,761 | 121,184 | 130,576 | 67,975 | 91,722 | | | | | |
| Water Potential Area = | | 17,137 ha | | | | | | | | | | | | | | | | |
| Land Potential Area = | | 34,300 ha | | | | | | | | | | | | | | | | |
| Irrigation Potential Area = | | 17,137 ha | | | | | | | | | | | | | | | | |
| Total | Rainfed | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | | | | | |
| | | 9,500 | 9,500 | 9,500 | 400 | 900 | 23,500 ha | 900 | 900 | 900 | 900 | 900 | 900 | | | | | |

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (5/7)

| Projection Year = 2010 | Basin Area = 2,499 km ² | River Basin Code = 2012 | | | | | | | | | | | |
|--|------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | Province = Jawa Barat | | | | | | | | | | | |
| Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Water Resources | | | | | | | | | | | | | |
| Runoff(R _{net} =20) | 144 | 126 | 127 | 132 | 100 | 61 | 48 | 55 | 58 | 91 | 100 | 117 | |
| Supply Water | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 119,952 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | |
| D.M.I Water | | | | | | | | | | | | | |
| Population | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | 535,756 | |
| Urban | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | 1,297,663 | |
| Rural | 2,823 | 2,550 | 2,823 | 2,732 | 2,823 | 2,732 | 2,823 | 2,823 | 2,732 | 2,823 | 2,732 | 2,823 | |
| Water Demand | 1,529 | 1,381 | 1,529 | 1,479 | 1,529 | 1,479 | 1,529 | 1,529 | 1,479 | 1,529 | 1,479 | 1,529 | |
| Rural | 5,979 | 5,400 | 5,979 | 5,786 | 5,979 | 5,786 | 5,979 | 5,979 | 5,786 | 5,979 | 5,786 | 5,979 | |
| Maintenance Water | 360 | | | | | | | | | | | | |
| Fishpond Water | | | | | | | | | | | | | |
| Fishpond Area | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| Water Consumption | 217 | 203 | 217 | 210 | 217 | 210 | 217 | 217 | 210 | 217 | 210 | 217 | |
| Water Demand | 723 | 676 | 723 | 699 | 723 | 699 | 723 | 723 | 699 | 723 | 699 | 723 | |
| Livestock Water | | | | | | | | | | | | | |
| Cattle/Bufalo/Horse | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | |
| Water Consumption | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | |
| Water Demand | 65 | 61 | 65 | 63 | 65 | 63 | 65 | 65 | 63 | 65 | 63 | 65 | |
| Sheep/Goat | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | 610.0 | |
| Water Consumption | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | |
| Water Demand | 94.55 | 88.45 | 94.55 | 91.50 | 94.55 | 91.50 | 94.55 | 94.55 | 91.50 | 94.55 | 91.50 | 94.55 | |
| Pig | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Water Consumption | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | |
| Water Demand | 0.19 | 0.17 | 0.19 | 0.18 | 0.19 | 0.18 | 0.19 | 0.19 | 0.18 | 0.19 | 0.18 | 0.19 | |
| Poultry | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | 4,678.1 | |
| Water Consumption | 0.0186 | 0.0174 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | |
| Water Demand | 87.01 | 78.59 | 87.01 | 84.21 | 87.01 | 84.21 | 87.01 | 87.01 | 84.21 | 87.01 | 84.21 | 87.01 | |
| Total Water Demand | 247 | 223 | 247 | 239 | 247 | 239 | 247 | 247 | 239 | 247 | 239 | 247 | |
| Irrigation Water | | | | | | | | | | | | | |
| Irrigation Area | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | |
| Irrigation Diversion Water | 170 | 140 | 169 | 176 | 215 | 243 | 232 | 137 | 89 | 135 | 245 | 231 | |
| Irrigation Water Demand | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 70,160 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | |
| Water Balance (Water Potential) | 297,208 | 262,242 | 255,061 | 265,770 | 173,568 | 68,097 | 38,491 | 84,709 | 106,993 | 175,221 | 164,992 | 211,055 | |
| Potential Area | 175,117 | 187,010 | 151,272 | 151,246 | 80,747 | 28,066 | 16,598 | 61,849 | 119,831 | 129,651 | 67,480 | 91,182 | |
| Water Potential Area = 16,598 ha | | | | | | | | | | | | | |
| Land Potential Area = 34,300 ha | | | | | | | | | | | | | |
| Irrigation Potential Area = 16,598 ha | | | | | | | | | | | | | |
| Total | | | Rainfed | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | |
| | | | 9,500 | 400 | 900 | 23,500 ha | | | | | | | |
| | | | 9,500 | 400 | 900 | 5,798 ha | | | | | | | |

Table 5.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (6/7)

| Projection Year = 2015 | | Basin Area = 2,499 km ² | | River Basin Code = 2012 | | | | | | | | | | | |
|------------------------------------|------------------------------|------------------------------------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| | | Province = Jawa Barat | | | | | | | | | | | | | |
| Unit | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | |
| Water Resources | (mm/month) | 144 | 126 | 127 | 132 | 100 | 61 | 48 | 55 | 58 | 91 | 100 | 117 | | |
| Runoff(R _{net} =20) | (1000m ³) | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 119,952 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | | |
| Supply Water | | | | | | | | | | | | | | | |
| D.M.I Water | | | | | | | | | | | | | | | |
| Population | | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | 626,148 | | |
| Rural | | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | 1,229,071 | | |
| Water Demand | (1000m ³) | 3,494 | 3,156 | 3,494 | 3,381 | 3,494 | 3,381 | 3,494 | 3,494 | 3,381 | 3,494 | 3,381 | 3,494 | | |
| Rural | (1000m ³) | 1,524 | 1,377 | 1,524 | 1,475 | 1,524 | 1,475 | 1,524 | 1,524 | 1,475 | 1,524 | 1,475 | 1,524 | | |
| Maintenance Water | (1000m ³) | 5,823 | 5,260 | 5,823 | 5,635 | 5,823 | 5,635 | 5,823 | 5,823 | 5,635 | 5,823 | 5,635 | 5,823 | | |
| Fishpond Water | | | | | | | | | | | | | | | |
| Fishpond Area | (ha) | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | | |
| Water Consumption | (mm/month) | 217 | 203 | 217 | 210 | 217 | 210 | 217 | 217 | 210 | 217 | 210 | 217 | | |
| Water Demand | (1000m ³) | 723 | 676 | 723 | 699 | 723 | 699 | 723 | 723 | 699 | 723 | 699 | 723 | | |
| Livestock Water | | | | | | | | | | | | | | | |
| Cattle/Bufalo/Horse | (1000heads) | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | | |
| Water Consumption | (m ³ /head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | | |
| Water Demand | (1000m ³) | 68 | 64 | 68 | 66 | 68 | 66 | 68 | 68 | 66 | 68 | 66 | 68 | | |
| Sheep/Goat | (1000heads) | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | 696.1 | | |
| Water Consumption | (m ³ /head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | | |
| Water Demand | (1000m ³) | 107.90 | 100.93 | 107.90 | 104.42 | 107.90 | 104.42 | 107.90 | 107.90 | 104.42 | 107.90 | 104.42 | 107.90 | | |
| Pig | (1000heads) | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | |
| Water Consumption | (m ³ /head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | | |
| Water Demand | (1000m ³) | 0.13 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | | |
| Poultry | (1000heads) | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | 5,223.5 | | |
| Water Consumption | (m ³ /head/month) | 0.0186 | 0.0174 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | 0.0186 | 0.018 | 0.0186 | 0.018 | 0.0186 | | |
| Water Demand | (1000m ³) | 97.16 | 87.75 | 97.16 | 94.02 | 97.16 | 94.02 | 97.16 | 97.16 | 94.02 | 97.16 | 94.02 | 97.16 | | |
| Total Water Demand | (1000m ³) | 274 | 247 | 274 | 265 | 274 | 265 | 274 | 274 | 265 | 274 | 265 | 274 | | |
| Irrigation Water | | | | | | | | | | | | | | | |
| Irrigation Area | (ha) | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | | |
| Irrigation Diversion Water | (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 243 | 232 | 137 | 89 | 135 | 245 | 231 | | |
| Irrigation Water Demand | (1000m ³) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 70,160 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | | |
| Water Balance (Water Potential) | (1000m ³) | 296,672 | 261,757 | 254,524 | 265,250 | 173,031 | 67,577 | 37,955 | 84,172 | 106,474 | 174,684 | 164,472 | 210,518 | | |
| Potential Area | (ha) | 174,801 | 186,664 | 150,954 | 150,950 | 80,497 | 27,851 | 16,367 | 61,457 | 119,249 | 129,254 | 67,268 | 90,950 | | |
| Water Potential Area = | 16,367 ha | | | | | | | | | | | | | | |
| Land Potential Area = | 34,300 ha | | | | | | | | | | | | | | |
| Irrigation Potential Area = | 16,367 ha | | | | | | | | | | | | | | |
| Total | | 9,500 | 9,500 | 9,500 | 400 | 900 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | | |
| Rainfed | | 9,500 | 9,500 | 9,500 | 400 | 900 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | | |
| S | | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |
| \$ | | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | | |
| \$ \$ | | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | 23,500 | | |
| ha | | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |

Table S.1 Calculation of Water Potential and Irrigation Potential Area for 2012 Ciujung River Basin (7/7)

| Projection Year = 2020 | Basin Area = 2,499 km ² | River Basin Code = 2012 | | | | | | | | | | | |
|--|------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | Province = Jawa Barat | | | | | | | | | | | |
| Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Water Resources | | | | | | | | | | | | | |
| Runoff(Rne=20) | 144 | 126 | 127 | 132 | 100 | 61 | 48 | 55 | 58 | 91 | 100 | 117 | |
| Supply Water (1000m3) | 359,856 | 314,874 | 317,373 | 329,868 | 249,900 | 152,439 | 119,952 | 137,445 | 144,942 | 227,409 | 249,900 | 292,383 | |
| D.M.I Water | | | | | | | | | | | | | |
| Population | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | 723,030 | |
| Rural | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | 1,151,816 | |
| Urban | 4,035 | 3,644 | 4,035 | 3,904 | 4,035 | 3,904 | 4,035 | 4,035 | 3,904 | 4,035 | 3,904 | 4,035 | |
| Rural | 1,428 | 1,290 | 1,428 | 1,382 | 1,428 | 1,382 | 1,428 | 1,428 | 1,382 | 1,428 | 1,382 | 1,428 | |
| Maintenance Water (1000m3) | 6,724 | 6,073 | 6,724 | 6,507 | 6,724 | 6,507 | 6,724 | 6,724 | 6,507 | 6,724 | 6,507 | 6,724 | |
| Fishpond Water | | | | | | | | | | | | | |
| Fishpond Area | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | 333 | |
| Water Consumption (mm/month) | 217 | 203 | 217 | 210 | 217 | 210 | 217 | 217 | 210 | 217 | 210 | 217 | |
| Water Demand (1000m3) | 723 | 676 | 723 | 699 | 723 | 699 | 723 | 723 | 699 | 723 | 699 | 723 | |
| Livestock Water | | | | | | | | | | | | | |
| Cattle/Bufallo/Horse | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | |
| Water Consumption (m3/head/month) | 1.24 | 1.16 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | 1.24 | 1.20 | 1.24 | 1.20 | 1.24 | |
| Water Demand | 72 | 67 | 72 | 69 | 72 | 69 | 72 | 72 | 69 | 72 | 69 | 72 | |
| Sheep/Goat | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | 782.2 | |
| Water Consumption (m3/head/month) | 0.155 | 0.145 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | 0.155 | 0.150 | 0.155 | 0.150 | 0.155 | |
| Water Demand | 121.24 | 113.42 | 121.24 | 117.33 | 121.24 | 117.33 | 121.24 | 121.24 | 117.33 | 121.24 | 117.33 | 121.24 | |
| Pig | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Water Consumption (m3/head/month) | 0.186 | 0.174 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | 0.186 | 0.180 | 0.186 | 0.180 | 0.186 | |
| Water Demand | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | |
| Poultry | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | 5,768.9 | |
| Water Consumption (m3/head/month) | 0.0093 | 0.0087 | 0.0093 | 0.009 | 0.0093 | 0.009 | 0.0093 | 0.0093 | 0.009 | 0.0093 | 0.009 | 0.0093 | |
| Water Demand | 107.30 | 96.92 | 107.30 | 103.84 | 107.30 | 103.84 | 107.30 | 107.30 | 103.84 | 107.30 | 103.84 | 107.30 | |
| Total Water Demand (1000m3) | 300 | 271 | 300 | 291 | 300 | 291 | 300 | 300 | 291 | 300 | 291 | 300 | |
| Irrigation Water | | | | | | | | | | | | | |
| Irrigation Area | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | 30,254 | |
| Irrigation Diversion Water (mm/month/100ha) | 170 | 140 | 169 | 176 | 215 | 243 | 232 | 137 | 89 | 135 | 245 | 231 | |
| Irrigation Water Demand (1000m3) | 51,347 | 42,425 | 51,012 | 53,162 | 65,032 | 73,406 | 70,160 | 41,436 | 27,013 | 40,888 | 73,972 | 70,028 | |
| Water Balance (Water Potential) | 295,299 | 260,518 | 253,152 | 263,922 | 171,658 | 66,249 | 36,582 | 82,799 | 105,145 | 173,312 | 163,144 | 209,146 | |
| Potential Area | | | | | | | | | | | | | |
| (ha) | 173,992 | 185,780 | 150,140 | 150,195 | 79,858 | 27,304 | 15,775 | 60,455 | 117,761 | 128,239 | 66,725 | 90,357 | |
| Water Potential Area = 15,775 ha | | | | | | | | | | | | | |
| Land Potential Area = 34,300 ha | | | | | | | | | | | | | |
| Irrigation Potential Area = 15,775 ha | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | |
| Land Potential Area = | 34,300 ha | | | | | | | | | | | | |
| Irrigation Potential Area = | 15,775 ha | | | | | | | | | | | | |
| Source : JICA-FIDP team calculation | | | | | | | | | | | | | |

Table 5.2 Estimation of Water Potential Area by River Basin (1/3)

| River Basin Code | Representative Province | Projection Year | | | | | | |
|------------------|-------------------------|-----------------|---------|---------|---------|---------|---------|---------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 1010 | D.I.Aceh | 21.3 | 20.2 | 18.2 | 16.4 | 14.3 | 12.7 | 10.2 |
| 1020 | D.I.Aceh | 2.4 | 2.2 | 1.8 | 1.5 | 1.2 | 0.9 | 0.6 |
| 1030 | D.I.Aceh | 48.6 | 47.6 | 45.8 | 44.4 | 42.6 | 41.3 | 39.3 |
| 1040 | D.I.Aceh | 76.3 | 76.1 | 75.7 | 75.4 | 75.0 | 74.8 | 74.3 |
| 1050 | D.I.Aceh | 55.5 | 55.3 | 54.9 | 54.6 | 54.3 | 54.0 | 53.6 |
| 1060 | D.I.Aceh | 393.5 | 393.4 | 393.2 | 393.0 | 392.8 | 392.7 | 392.5 |
| 1071 | D.I.Aceh | 495.6 | 495.5 | 495.3 | 495.2 | 495.0 | 494.9 | 494.7 |
| 1072 | D.I.Aceh | 79.6 | 79.6 | 79.6 | 79.5 | 79.5 | 79.5 | 79.4 |
| 1080 | Sumatera Utara | 326.3 | 326.2 | 325.9 | 325.7 | 325.5 | 325.4 | 325.2 |
| 1090 | Sumatera Utara | 14.2 | 13.3 | 11.7 | 10.8 | 8.2 | 7.7 | 6.3 |
| 1100 | Sumatera Utara | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1110 | Sumatera Utara | 16.3 | 16.1 | 15.7 | 15.5 | 15.2 | 15.1 | 14.9 |
| 1121 | Sumatera Utara | 8.4 | 8.0 | 7.3 | 6.9 | 6.4 | 6.3 | 5.8 |
| 1122 | Sumatera Utara | 54.4 | 54.1 | 53.4 | 53.1 | 52.7 | 52.5 | 52.1 |
| 1131 | Sumatera Utara | 98.9 | 98.6 | 98.1 | 97.8 | 97.5 | 97.3 | 97.0 |
| 1132 | Sumatera Utara | 36.4 | 36.2 | 35.7 | 35.5 | 35.2 | 35.1 | 34.8 |
| 1141 | Sumatera Utara | 373.6 | 373.4 | 372.8 | 372.6 | 372.3 | 372.2 | 371.9 |
| 1142 | Sumatera Utara | 263.7 | 263.6 | 263.3 | 263.2 | 263.1 | 263.0 | 262.9 |
| 1150 | Riau | 405.9 | 405.4 | 404.6 | 404.1 | 403.6 | 403.3 | 402.7 |
| 1161 | Riau | 424.6 | 424.2 | 423.5 | 422.9 | 422.3 | 421.9 | 421.2 |
| 1162 | Riau | 87.8 | 87.8 | 87.7 | 87.6 | 87.5 | 87.5 | 87.4 |
| 1171 | Riau | 1,076.4 | 1,074.9 | 1,072.4 | 1,070.5 | 1,068.3 | 1,067.0 | 1,061.3 |
| 1172 | Riau | 53.8 | 53.5 | 52.9 | 52.5 | 52.0 | 51.7 | 51.1 |
| 1181 | Riau | 620.8 | 619.8 | 618.0 | 616.7 | 615.4 | 614.7 | 613.3 |
| 1182 | Riau | 62.8 | 62.7 | 62.6 | 62.4 | 62.3 | 62.2 | 62.0 |
| 1191 | Sumatera Barat | 323.6 | 323.5 | 323.2 | 323.1 | 322.9 | 322.8 | 322.7 |
| 1192 | Sumatera Barat | 103.8 | 103.7 | 103.6 | 103.6 | 103.5 | 103.5 | 103.5 |
| 1201 | Sumatera Barat | 227.8 | 227.0 | 225.6 | 224.6 | 223.5 | 221.4 | 219.9 |
| 1202 | Sumatera Barat | 102.4 | 102.4 | 102.2 | 102.2 | 102.1 | 102.0 | 102.0 |
| 1210 | Jambi | 1,199.5 | 1,197.8 | 1,194.9 | 1,192.7 | 1,187.7 | 1,185.7 | 1,182.3 |
| 1220 | Sumatera Selatan | 220.5 | 220.3 | 220.0 | 219.8 | 219.6 | 219.5 | 219.3 |
| 1230 | Sumatera Selatan | 370.9 | 370.4 | 369.6 | 369.0 | 368.5 | 368.2 | 367.6 |
| 1241 | Sumatera Selatan | 783.8 | 781.1 | 776.5 | 773.2 | 769.7 | 767.9 | 763.8 |
| 1242 | Sumatera Selatan | 245.3 | 245.0 | 244.5 | 244.2 | 243.8 | 243.6 | 243.2 |
| 1250 | Lampung | 172.0 | 171.6 | 170.6 | 170.2 | 169.8 | 169.4 | 169.1 |
| 1261 | Lampung | 35.9 | 35.5 | 34.5 | 34.1 | 33.6 | 33.4 | 33.0 |
| 1262 | Lampung | 41.1 | 40.0 | 37.9 | 36.8 | 35.6 | 35.4 | 34.1 |
| 1270 | Lampung | 233.3 | 232.9 | 232.0 | 231.6 | 231.2 | 231.0 | 230.5 |
| 1280 | Bengkulu | 534.0 | 532.2 | 529.1 | 526.7 | 523.7 | 521.7 | 518.2 |
| 1290 | Bengkulu | 509.4 | 509.1 | 508.6 | 508.3 | 508.0 | 507.7 | 507.4 |
| 1300 | Bengkulu | 197.7 | 197.6 | 197.5 | 197.5 | 197.4 | 197.4 | 197.3 |
| | Sumatera | 10,398 | 10,378 | 10,341 | 10,315 | 10,283 | 10,264 | 10,228 |

Table 5.2 Estimation of Water Potential Area by River Basin (2/3)

| River Basin Code | Representative Province | Projection Year ('000 ha) | | | | | | |
|------------------|-------------------------|---------------------------|---------|---------|---------|---------|---------|---------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 2011 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2012 | Jawa Barat | 19.0 | 18.5 | 17.6 | 17.1 | 16.6 | 16.4 | 15.8 |
| 2020 | DKI Jakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2030 | Jawa Barat | 60.2 | 58.6 | 54.0 | 52.1 | 50.0 | 48.9 | 46.6 |
| 2041 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2042 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2051 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2052 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2060 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2070 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2080 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2091 | Jawa Tengah | 4.2 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2092 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2101 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2102 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2103 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2111 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2112 | Yogyakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2121 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2122 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2123 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2131 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2132 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2133 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2141 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2142 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2143 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2150 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Jawa | 83 | 80 | 72 | 69 | 67 | 65 | 62 |
| 3011 | Bali | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3012 | Bali | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3020 | Nusa Tenggara Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3030 | Nusa Tenggara Barat | 8.6 | 8.3 | 7.7 | 7.3 | 6.9 | 6.8 | 6.4 |
| 3040 | Nusa Tenggara Timur | 15.2 | 15.1 | 14.8 | 14.7 | 14.5 | 14.4 | 14.2 |
| 3050 | Nusa Tenggara Timur | 10.3 | 10.1 | 9.7 | 9.4 | 9.1 | 8.9 | 8.6 |
| 3060 | Nusa Tenggara Timur | 28.2 | 28.0 | 27.5 | 27.2 | 26.8 | 26.6 | 26.2 |
| 3070 | Timor Timur | 35.9 | 35.8 | 35.5 | 35.4 | 35.2 | 35.1 | 34.9 |
| | Bali & NT | 98 | 97 | 95 | 94 | 93 | 92 | 90 |
| 4010 | Kalimantan Selatan | 353.9 | 353.4 | 352.4 | 351.8 | 351.1 | 350.8 | 350.1 |
| 4021 | Kalimantan Tengah | 1,208.6 | 1,208.5 | 1,208.3 | 1,208.2 | 1,208.0 | 1,207.9 | 1,207.7 |
| 4022 | Kalimantan Selatan | 2,540.8 | 2,540.2 | 2,538.8 | 2,538.0 | 2,537.0 | 2,535.2 | 2,533.9 |
| 4030 | Kalimantan Tengah | 642.9 | 642.9 | 642.7 | 642.5 | 642.4 | 642.2 | 642.0 |
| 4040 | Kalimantan Tengah | 618.0 | 617.8 | 617.5 | 617.1 | 616.7 | 616.4 | 615.8 |
| 4050 | Kalimantan Tengah | 452.8 | 452.8 | 452.6 | 452.5 | 452.3 | 452.2 | 452.0 |
| 4061 | Kalimantan Tengah | 386.6 | 386.5 | 386.5 | 386.4 | 386.3 | 386.3 | 386.2 |
| 4062 | Kalimantan Tengah | 630.7 | 630.6 | 630.4 | 630.2 | 629.9 | 629.7 | 629.4 |
| 4070 | Kalimantan Barat | 786.1 | 786.0 | 785.9 | 785.8 | 785.6 | 785.6 | 785.5 |
| 4080 | Kalimantan Barat | 3,907.2 | 3,906.6 | 3,905.4 | 3,904.5 | 3,903.5 | 3,901.6 | 3,900.3 |
| 4090 | Kalimantan Barat | 337.9 | 337.8 | 337.5 | 337.3 | 337.1 | 337.0 | 336.8 |
| 4100 | Kalimantan Timur | 778.1 | 778.1 | 778.0 | 777.9 | 777.8 | 777.7 | 777.6 |
| 4110 | Kalimantan Timur | 1,501.8 | 1,501.7 | 1,501.6 | 1,501.5 | 1,501.4 | 1,501.3 | 1,501.2 |
| 4120 | Kalimantan Timur | 313.9 | 313.9 | 313.8 | 313.8 | 313.7 | 313.7 | 313.7 |
| 4130 | Kalimantan Timur | 292.4 | 292.3 | 292.1 | 291.9 | 291.8 | 291.7 | 291.5 |
| 4141 | Kalimantan Timur | 1,643.4 | 1,642.3 | 1,640.7 | 1,639.2 | 1,635.9 | 1,634.8 | 1,632.5 |
| 4142 | Kalimantan Timur | 110.9 | 110.5 | 109.8 | 109.3 | 108.8 | 108.5 | 107.9 |
| | Kalimantan | 16,506 | 16,502 | 16,494 | 16,488 | 16,479 | 16,472 | 16,464 |

Table 5.2 Estimation of Water Potential Area by River Basin (3/3)

| River Basin Code | Representative Province | Projection Year | | | | | | |
|------------------|-------------------------|-----------------|---------|---------|---------|---------|---------|---------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 5011 | Sulawesi Utara | 43.3 | 42.8 | 42.0 | 41.5 | 41.0 | 40.8 | 40.1 |
| 5012 | Sulawesi Utara | 22.4 | 22.4 | 22.3 | 22.3 | 22.2 | 22.2 | 22.2 |
| 5013 | Sulawesi Utara | 129.1 | 129.0 | 128.7 | 128.6 | 128.5 | 128.4 | 128.3 |
| 5021 | Sulawesi Utara | 36.3 | 36.2 | 36.2 | 36.1 | 36.1 | 36.0 | 36.0 |
| 5022 | Sulawesi Utara | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 |
| 5031 | Sulawesi Utara | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| 5032 | Sulawesi Utara | 15.0 | 14.9 | 14.8 | 14.7 | 14.6 | 14.6 | 14.5 |
| 5041 | Sulawesi Tengah | 88.7 | 88.6 | 88.4 | 88.3 | 88.1 | 88.0 | 87.8 |
| 5042 | Sulawesi Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5050 | Sulawesi Tengah | 110.7 | 110.6 | 110.4 | 110.3 | 110.2 | 110.0 | 109.9 |
| 5061 | Sulawesi Tengah | 61.8 | 61.8 | 61.7 | 61.7 | 61.6 | 61.6 | 61.5 |
| 5062 | Sulawesi Tengah | 97.0 | 97.0 | 96.9 | 96.8 | 96.7 | 96.6 | 96.4 |
| 5070 | Sulawesi Tengah | 14.9 | 14.8 | 14.7 | 14.5 | 14.4 | 14.3 | 14.1 |
| 5080 | Sulawesi Tengah | 85.1 | 85.0 | 84.9 | 84.8 | 84.7 | 84.6 | 84.5 |
| 5091 | Sulawesi Tengah | 50.4 | 50.2 | 50.0 | 49.8 | 49.6 | 49.5 | 49.2 |
| 5092 | Sulawesi Tengah | 44.0 | 43.9 | 43.8 | 43.7 | 43.6 | 43.5 | 43.4 |
| 5101 | Sulawesi Tenggara | 34.7 | 34.5 | 34.1 | 33.8 | 33.4 | 33.1 | 32.7 |
| 5102 | Sulawesi Tenggara | 32.8 | 32.6 | 32.2 | 31.9 | 31.6 | 31.3 | 30.9 |
| 5111 | Sulawesi Tenggara | 30.3 | 30.1 | 29.6 | 29.2 | 28.7 | 28.3 | 27.7 |
| 5112 | Sulawesi Tenggara | 25.9 | 25.7 | 25.4 | 25.0 | 24.6 | 24.3 | 23.9 |
| 5120 | Sulawesi Tenggara | 86.5 | 86.5 | 86.4 | 86.3 | 86.2 | 86.2 | 86.1 |
| 5131 | Sulawesi Selatan | 26.9 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| 5132 | Sulawesi Selatan | 36.7 | 36.7 | 36.6 | 36.6 | 36.6 | 36.6 | 36.5 |
| 5133 | Sulawesi Selatan | 13.6 | 13.5 | 13.5 | 13.5 | 13.4 | 13.4 | 13.4 |
| 5141 | Sulawesi Selatan | 12.4 | 12.4 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 5142 | Sulawesi Selatan | 43.4 | 43.4 | 43.4 | 43.4 | 43.3 | 43.3 | 43.3 |
| 5143 | Sulawesi Selatan | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.6 |
| 5144 | Sulawesi Selatan | 52.3 | 52.3 | 52.3 | 52.3 | 52.2 | 52.2 | 52.2 |
| 5151 | Sulawesi Selatan | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| 5152 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5153 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5161 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5162 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5171 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5172 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Sulawesi | 1,249 | 1,247 | 1,242 | 1,239 | 1,235 | 1,232 | 1,228 |
| 6010 | Maluku | 41.6 | 41.5 | 41.4 | 41.3 | 41.1 | 41.1 | 40.9 |
| 6020 | Maluku | 506.3 | 505.7 | 504.7 | 503.8 | 502.8 | 502.1 | 500.9 |
| 6030 | Maluku | 677.0 | 676.7 | 676.2 | 675.9 | 675.4 | 675.1 | 674.6 |
| 7010 | Irian Jaya | 3,154.0 | 3,153.8 | 3,153.5 | 3,153.2 | 3,153.0 | 3,152.9 | 3,152.6 |
| 7020 | Irian Jaya | 3,559.1 | 3,558.9 | 3,558.4 | 3,558.0 | 3,557.7 | 3,557.5 | 3,557.0 |
| 7030 | Irian Jaya | 4,766.3 | 4,766.2 | 4,766.0 | 4,765.9 | 4,765.7 | 4,765.6 | 4,765.5 |
| 7040 | Irian Jaya | 1,108.8 | 1,108.7 | 1,108.6 | 1,108.5 | 1,108.4 | 1,108.4 | 1,108.3 |
| | Maluku & Irian Jaya | 13,813 | 13,812 | 13,809 | 13,807 | 13,804 | 13,803 | 13,800 |
| | Indonesia | 42,148 | 42,115 | 42,052 | 42,012 | 41,960 | 41,928 | 41,872 |

Source: JICA-FIDP Team calculation

Table 5.3 Water Potential Area by Province (1990-2020)

('000 ha)

| Code | Province | Projection Year | | | | | | |
|------|------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 11 | D.I.Aceh | 1,378 | 1,375 | 1,369 | 1,365 | 1,359 | 1,355 | 1,349 |
| 12 | Sumatera Utara | 1,053 | 1,051 | 1,045 | 1,042 | 1,038 | 1,036 | 1,032 |
| 13 | Sumatera Barat | 1,219 | 1,217 | 1,214 | 1,212 | 1,210 | 1,207 | 1,203 |
| 14 | Riau | 2,301 | 2,298 | 2,292 | 2,288 | 2,283 | 2,281 | 2,272 |
| 15 | Jambi | 1,219 | 1,217 | 1,214 | 1,212 | 1,208 | 1,206 | 1,203 |
| 16 | Sumatera Selatan | 1,577 | 1,573 | 1,567 | 1,563 | 1,558 | 1,556 | 1,551 |
| 17 | Bengkulu | 1,222 | 1,220 | 1,216 | 1,213 | 1,210 | 1,207 | 1,203 |
| 18 | Lampung | 430 | 428 | 423 | 421 | 418 | 417 | 415 |
| | SUMATERA | 10,398 | 10,378 | 10,341 | 10,315 | 10,283 | 10,264 | 10,228 |
| 31 | DKI.Jakarta | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | Jawa Barat | 79 | 77 | 72 | 69 | 67 | 65 | 62 |
| 33 | Jawa Tengah | 4 | 3 | 0 | 0 | 0 | 0 | 0 |
| 34 | Yogyakarta | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | Jawa Timur | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | JAWA | 83 | 80 | 72 | 69 | 67 | 65 | 62 |
| 51 | Bali | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | Nusa Tenggara Bara | 9 | 8 | 8 | 7 | 7 | 7 | 6 |
| 53 | Nusa Tenggara Timu | 55 | 55 | 53 | 53 | 52 | 51 | 50 |
| 54 | Timor Timur | 35 | 35 | 34 | 34 | 34 | 34 | 34 |
| | BALI & NT | 98 | 97 | 95 | 94 | 93 | 92 | 90 |
| 61 | Kalimantan Barat | 5,116 | 5,115 | 5,114 | 5,113 | 5,111 | 5,109 | 5,108 |
| 62 | Kalimantan Selatan | 5,087 | 5,086 | 5,084 | 5,083 | 5,081 | 5,079 | 5,077 |
| 63 | Kalimantan Tengah | 1,650 | 1,649 | 1,648 | 1,647 | 1,645 | 1,644 | 1,643 |
| 64 | Kalimantan Timur | 4,653 | 4,651 | 4,648 | 4,646 | 4,642 | 4,640 | 4,637 |
| | KALIMANTAN | 16,506 | 16,502 | 16,494 | 16,488 | 16,479 | 16,472 | 16,464 |
| 71 | Sulawesi Utara | 268 | 267 | 266 | 265 | 264 | 264 | 262 |
| 72 | Sulawesi Tengah | 534 | 533 | 532 | 531 | 530 | 529 | 528 |
| 73 | Sulawesi Tenggara | 243 | 243 | 243 | 243 | 242 | 242 | 242 |
| 74 | Sulawesi Selatan | 204 | 203 | 202 | 200 | 199 | 197 | 196 |
| | SULAWESI | 1,249 | 1,247 | 1,242 | 1,239 | 1,235 | 1,232 | 1,228 |
| 81 | Maluku | 1,225 | 1,224 | 1,222 | 1,221 | 1,219 | 1,218 | 1,216 |
| 82 | Irian Jaya | 12,588 | 12,588 | 12,587 | 12,586 | 12,585 | 12,584 | 12,583 |
| | MALUKU & IJ | 13,813 | 13,812 | 13,809 | 13,807 | 13,804 | 13,803 | 13,800 |
| | INDONESIA | 42,148 | 42,115 | 42,053 | 42,012 | 41,960 | 41,928 | 41,872 |

Source : JICA FIDP Team Calculation

Table 6.1 Irrigation Development Potential Area by Province in 1990

Unit: 1000ha

| Province | Irrigable Rainfed | Fully suitable | Conditionally suitable | Marginally suitable | Total |
|------------------------|-------------------|----------------|------------------------|---------------------|---------------|
| D.I. Aceh | 80 | 33 | 56 | 109 | 277 |
| Sumatera Utara | 128 | 40 | 93 | 243 | 505 |
| Sumatera Barat | 45 | 19 | 47 | 64 | 175 |
| Riau | 36 | 146 | 166 | 573 | 922 |
| Jambi | 22 | 36 | 67 | 448 | 574 |
| Sumatera Selatan | 35 | 50 | 214 | 1,015 | 1,314 |
| Bengkulu | 7 | 11 | 11 | 55 | 85 |
| Lampung | 34 | 7 | 25 | 424 | 490 |
| <u>Sumatera</u> | <u>388</u> | <u>342</u> | <u>681</u> | <u>2,932</u> | <u>4,342</u> |
| D.K.I. Jakarta | 1 | 0 | 0 | 2 | 3 |
| Jawa Barat | 176 | 8 | 17 | 436 | 636 |
| Jawa Tengah | 229 | 19 | 12 | 257 | 517 |
| D.I. Yogyakarta | 7 | 0 | 2 | 13 | 22 |
| Jawa Timur | 189 | 0 | 24 | 378 | 591 |
| <u>Jawa</u> | <u>602</u> | <u>27</u> | <u>55</u> | <u>1,086</u> | <u>1,769</u> |
| Bali | 0 | 0 | 5 | 67 | 73 |
| Nusa Tenggara Bar | 19 | 16 | 8 | 57 | 101 |
| Nusa Tenggara Tir | 9 | 35 | 26 | 219 | 289 |
| Timor Timur | 0 | 19 | 0 | 77 | 96 |
| <u>Bali & NT</u> | <u>29</u> | <u>70</u> | <u>40</u> | <u>420</u> | <u>559</u> |
| Kalimantan Barat | 106 | 119 | 32 | 898 | 1,155 |
| Kalimantan Selatan | 29 | 179 | 62 | 411 | 681 |
| Kalimantan Tengah | 100 | 139 | 0 | 363 | 602 |
| Kalimantan Timur | 23 | 92 | 72 | 1,069 | 1,255 |
| <u>Kalimantan</u> | <u>258</u> | <u>529</u> | <u>166</u> | <u>2,740</u> | <u>3,693</u> |
| Sulawesi Utara | 8 | 10 | 19 | 40 | 78 |
| Sulawesi Tengah | 7 | 38 | 41 | 36 | 122 |
| Sulawesi Tenggara | 202 | 97 | 47 | 127 | 473 |
| Sulawesi Selatan | 3 | 26 | 16 | 171 | 216 |
| <u>Sulawesi</u> | <u>220</u> | <u>171</u> | <u>124</u> | <u>375</u> | <u>889</u> |
| Maluku | 0 | 131 | 64 | 228 | 423 |
| Irian Jaya | 0 | 1,162 | 661 | 337 | 2,160 |
| <u>Maluku & IJ</u> | <u>0</u> | <u>1,293</u> | <u>725</u> | <u>565</u> | <u>2,584</u> |
| <u>Indonesia</u> | <u>1,496</u> | <u>2,432</u> | <u>1,791</u> | <u>8,117</u> | <u>13,836</u> |

Source: JICA-FIDP Annex C

Table 6.2 Irrigation Development Potential Area by River Basin (1/3)

| River Basin Code | Representative Province | River Basin Area (km ²) | Irrigable rainfed field | Unit : ha | | | Total |
|------------------|-------------------------|-------------------------------------|-------------------------|------------------|---------------------------|--------------------------|---------|
| | | | | Fully suitable S | Conditionally suitable \$ | Marginally suitable \$\$ | |
| 1010 | D.I.Aceh | 4,051 | 5,600 | 2,300 | 4,000 | 7,700 | 19,600 |
| 1020 | D.I.Aceh | 2,789 | 3,900 | 1,600 | 2,700 | 5,300 | 13,500 |
| 1030 | D.I.Aceh | 5,993 | 8,400 | 3,400 | 5,800 | 11,400 | 29,000 |
| 1040 | D.I.Aceh | 7,086 | 9,900 | 4,100 | 6,900 | 13,500 | 34,400 |
| 1050 | D.I.Aceh | 6,787 | 9,600 | 3,900 | 6,700 | 13,400 | 33,600 |
| 1060 | D.I.Aceh | 7,169 | 10,000 | 4,100 | 7,000 | 13,700 | 34,800 |
| 1071 | D.I.Aceh | 11,223 | 15,600 | 6,400 | 10,900 | 21,400 | 54,300 |
| 1072 | D.I.Aceh | 2,037 | 2,800 | 1,200 | 2,000 | 3,900 | 9,900 |
| 1080 | Sumatera Utara | 16,077 | 24,800 | 9,200 | 17,600 | 39,400 | 91,000 |
| 1090 | Sumatera Utara | 7,712 | 13,800 | 4,400 | 10,000 | 26,000 | 54,200 |
| 1100 | Sumatera Utara | 6,765 | 12,200 | 3,800 | 8,900 | 23,000 | 47,900 |
| 1110 | Sumatera Utara | 3,382 | 6,100 | 1,900 | 4,400 | 11,500 | 23,900 |
| 1121 | Sumatera Utara | 1,142 | 2,100 | 600 | 1,500 | 3,900 | 8,100 |
| 1122 | Sumatera Utara | 6,118 | 8,900 | 2,800 | 6,500 | 16,900 | 35,100 |
| 1131 | Sumatera Utara | 8,433 | 15,100 | 4,800 | 11,000 | 28,700 | 59,600 |
| 1132 | Sumatera Utara | 9,091 | 15,800 | 5,500 | 12,100 | 31,900 | 65,300 |
| 1141 | Sumatera Utara | 15,055 | 26,800 | 8,500 | 19,600 | 50,500 | 105,400 |
| 1142 | Sumatera Utara | 5,300 | 9,500 | 3,000 | 6,900 | 18,000 | 37,400 |
| 1150 | Riau | 22,704 | 16,100 | 28,100 | 36,200 | 115,000 | 195,400 |
| 1161 | Riau | 17,474 | 6,600 | 26,300 | 30,000 | 103,300 | 166,200 |
| 1162 | Riau | 6,034 | 2,300 | 9,100 | 10,400 | 35,900 | 57,700 |
| 1171 | Riau | 31,232 | 13,300 | 45,000 | 52,800 | 176,500 | 287,600 |
| 1172 | Riau | 3,743 | 1,400 | 5,700 | 6,500 | 22,300 | 35,900 |
| 1181 | Riau | 31,594 | 17,500 | 35,900 | 48,300 | 172,000 | 273,700 |
| 1182 | Riau | 4,230 | 1,600 | 6,400 | 7,300 | 25,200 | 40,500 |
| 1191 | Sumatera Barat | 7,649 | 7,800 | 3,600 | 8,900 | 16,400 | 36,700 |
| 1192 | Sumatera Barat | 1,501 | 1,600 | 700 | 1,700 | 2,300 | 6,300 |
| 1201 | Sumatera Barat | 8,914 | 9,500 | 4,000 | 10,100 | 13,700 | 37,300 |
| 1202 | Sumatera Barat | 3,854 | 4,100 | 1,700 | 4,400 | 6,000 | 16,200 |
| 1210 | Jambi | 44,554 | 25,400 | 31,100 | 59,600 | 348,800 | 464,900 |
| 1220 | Sumatera Selatan | 10,619 | 3,700 | 5,200 | 22,500 | 106,600 | 138,000 |
| 1230 | Sumatera Selatan | 16,727 | 5,800 | 8,200 | 35,500 | 167,900 | 217,400 |
| 1241 | Sumatera Selatan | 58,457 | 20,500 | 28,900 | 118,800 | 566,800 | 735,000 |
| 1242 | Sumatera Selatan | 18,777 | 7,000 | 10,400 | 36,500 | 185,000 | 238,900 |
| 1250 | Lampung | 16,610 | 14,000 | 4,600 | 18,700 | 199,000 | 236,300 |
| 1261 | Lampung | 8,631 | 8,800 | 1,700 | 6,600 | 109,500 | 126,600 |
| 1262 | Lampung | 5,627 | 5,800 | 1,100 | 4,300 | 71,400 | 82,600 |
| 1270 | Lampung | 7,060 | 7,000 | 1,500 | 5,400 | 87,100 | 101,000 |
| 1280 | Bengkulu | 7,986 | 2,700 | 4,400 | 4,600 | 22,200 | 33,900 |
| 1290 | Bengkulu | 6,475 | 2,200 | 3,500 | 3,600 | 17,500 | 26,800 |
| 1300 | Bengkulu | 5,062 | 1,900 | 3,000 | 3,700 | 21,000 | 29,600 |
| 2011 | Jawa Barat | 2,474 | 9,400 | 400 | 900 | 23,300 | 34,000 |
| 2012 | Jawa Barat | 2,499 | 9,500 | 400 | 900 | 23,500 | 34,300 |
| 2020 | DKI.Jakarta | 4,012 | 14,000 | 600 | 1,200 | 33,700 | 49,500 |
| 2030 | Jawa Barat | 10,121 | 38,300 | 1,700 | 3,600 | 95,200 | 138,800 |
| 2041 | Jawa Barat | 4,073 | 15,400 | 700 | 1,500 | 38,200 | 55,800 |
| 2042 | Jawa Barat | 7,994 | 29,700 | 1,400 | 2,800 | 73,800 | 107,700 |
| 2051 | Jawa Barat | 4,341 | 16,400 | 700 | 1,600 | 40,800 | 59,500 |
| 2052 | Jawa Barat | 2,573 | 10,800 | 600 | 900 | 23,500 | 35,800 |
| 2060 | Jawa Barat | 6,510 | 24,700 | 1,100 | 2,300 | 61,200 | 89,300 |
| 2070 | Jawa Tengah | 5,226 | 26,500 | 1,800 | 1,900 | 44,500 | 74,700 |
| 2080 | Jawa Tengah | 4,936 | 32,600 | 2,700 | 1,800 | 36,800 | 73,900 |
| 2091 | Jawa Tengah | 3,769 | 25,000 | 2,000 | 1,300 | 28,000 | 56,300 |
| 2092 | Jawa Tengah | 3,681 | 24,400 | 2,000 | 1,300 | 27,400 | 55,100 |

Table 6.2 Irrigation Development Potential Area by River Basin (2/3)

| River Basin Code | Representative Province | River Basin Area (km ²) | Irrigable rainfed field | Unit : ha | | | Total |
|------------------|-------------------------|-------------------------------------|-------------------------|------------------|---------------------------|--------------------------|---------|
| | | | | Fully suitable S | Conditionally suitable \$ | Marginally suitable \$\$ | |
| 2101 | Jawa Tengah | 3,113 | 20,600 | 1,700 | 1,100 | 23,200 | 46,600 |
| 2102 | Jawa Tengah | 3,794 | 25,100 | 2,100 | 1,300 | 28,200 | 56,700 |
| 2103 | Jawa Tengah | 3,558 | 23,600 | 1,900 | 1,300 | 26,500 | 53,300 |
| 2111 | Jawa Tengah | 2,762 | 14,700 | 1,100 | 1,100 | 17,900 | 34,800 |
| 2112 | Yogyakarta | 2,622 | 6,700 | 300 | 1,300 | 11,700 | 20,000 |
| 2121 | Jawa Tengah | 10,010 | 53,500 | 3,000 | 4,200 | 75,300 | 136,000 |
| 2122 | Jawa Tengah | 7,989 | 34,500 | 700 | 3,800 | 61,800 | 100,800 |
| 2123 | Jawa Timur | 1,607 | 6,600 | 100 | 800 | 12,500 | 20,000 |
| 2131 | Jawa Timur | 6,275 | 24,400 | 0 | 3,100 | 48,900 | 76,400 |
| 2132 | Jawa Timur | 5,830 | 22,700 | 0 | 2,900 | 45,400 | 71,000 |
| 2133 | Jawa Timur | 3,073 | 12,000 | 0 | 1,500 | 23,900 | 37,400 |
| 2141 | Jawa Timur | 4,759 | 18,500 | 0 | 2,400 | 37,100 | 58,000 |
| 2142 | Jawa Timur | 5,142 | 20,000 | 0 | 2,600 | 40,000 | 62,600 |
| 2143 | Jawa Timur | 5,068 | 19,700 | 0 | 2,500 | 39,500 | 61,700 |
| 2150 | Jawa Timur | 5,669 | 22,100 | 0 | 2,800 | 44,200 | 69,100 |
| 3011 | Bali | 1,505 | 100 | 0 | 1,400 | 17,800 | 19,300 |
| 3012 | Bali | 4,184 | 300 | 0 | 3,900 | 49,500 | 53,700 |
| 3020 | Nusa Tenggara Bar | 4,515 | 4,400 | 3,600 | 1,900 | 13,000 | 22,900 |
| 3030 | Nusa Tenggara Bar | 15,241 | 15,000 | 12,300 | 6,600 | 43,800 | 77,700 |
| 3040 | Nusa Tenggara Tirr | 10,836 | 2,000 | 8,200 | 6,200 | 51,300 | 67,700 |
| 3050 | Nusa Tenggara Tirr | 14,931 | 2,800 | 11,300 | 8,500 | 70,700 | 93,300 |
| 3060 | Nusa Tenggara Tirr | 20,200 | 3,600 | 15,700 | 11,100 | 96,000 | 126,400 |
| 3070 | Timor Timur | 15,065 | 200 | 18,900 | 700 | 77,600 | 97,400 |
| 4010 | Kalimantan Selatan | 16,219 | 44,900 | 62,700 | 0 | 163,100 | 270,700 |
| 4021 | Kalimantan Tengah | 42,709 | 8,400 | 49,400 | 17,100 | 117,700 | 192,600 |
| 4022 | Kalimantan Selatan | 37,827 | 56,400 | 95,600 | 7,500 | 242,100 | 401,600 |
| 4030 | Kalimantan Tengah | 17,303 | 3,200 | 20,000 | 7,000 | 45,900 | 76,100 |
| 4040 | Kalimantan Tengah | 23,626 | 4,400 | 27,400 | 9,500 | 62,800 | 104,100 |
| 4050 | Kalimantan Tengah | 16,169 | 3,000 | 18,700 | 6,500 | 42,900 | 71,100 |
| 4061 | Kalimantan Tengah | 15,571 | 2,900 | 18,000 | 6,300 | 41,500 | 68,700 |
| 4062 | Kalimantan Tengah | 25,429 | 7,500 | 27,600 | 9,300 | 85,500 | 129,900 |
| 4070 | Kalimantan Barat | 33,641 | 24,300 | 27,200 | 7,200 | 205,100 | 263,800 |
| 4080 | Kalimantan Barat | 95,557 | 68,100 | 77,200 | 20,600 | 576,900 | 742,800 |
| 4090 | Kalimantan Barat | 14,145 | 10,200 | 11,400 | 3,000 | 86,300 | 110,900 |
| 4100 | Kalimantan Timur | 31,568 | 3,700 | 14,800 | 11,600 | 172,200 | 202,300 |
| 4110 | Kalimantan Timur | 33,005 | 3,800 | 15,400 | 12,100 | 180,000 | 211,300 |
| 4120 | Kalimantan Timur | 19,115 | 2,200 | 8,900 | 7,000 | 104,300 | 122,400 |
| 4130 | Kalimantan Timur | 20,315 | 2,400 | 9,500 | 7,500 | 110,800 | 130,200 |
| 4141 | Kalimantan Timur | 77,510 | 9,200 | 36,700 | 28,300 | 418,300 | 492,500 |
| 4142 | Kalimantan Timur | 15,131 | 3,000 | 8,600 | 5,400 | 84,600 | 101,600 |
| 5011 | Sulawesi Utara | 3,697 | 1,100 | 1,400 | 2,600 | 5,400 | 10,500 |
| 5012 | Sulawesi Utara | 2,281 | 700 | 900 | 1,600 | 3,400 | 6,600 |
| 5013 | Sulawesi Utara | 6,340 | 2,000 | 2,400 | 4,400 | 9,400 | 18,200 |
| 5021 | Sulawesi Utara | 3,253 | 1,000 | 1,300 | 2,300 | 4,800 | 9,400 |
| 5022 | Sulawesi Utara | 3,710 | 1,100 | 1,400 | 2,600 | 5,500 | 10,600 |
| 5031 | Sulawesi Utara | 1,044 | 300 | 400 | 700 | 1,400 | 2,800 |
| 5032 | Sulawesi Utara | 6,508 | 2,000 | 2,500 | 4,600 | 9,600 | 18,700 |
| 5041 | Sulawesi Tengah | 9,070 | 1,100 | 5,500 | 6,200 | 5,800 | 18,600 |
| 5042 | Sulawesi Tengah | 4,156 | 500 | 2,600 | 2,800 | 2,500 | 8,400 |
| 5050 | Sulawesi Tengah | 9,700 | 1,400 | 5,900 | 6,300 | 5,700 | 19,300 |
| 5061 | Sulawesi Tengah | 3,467 | 400 | 2,100 | 2,300 | 2,100 | 6,900 |
| 5062 | Sulawesi Tengah | 5,536 | 600 | 3,400 | 3,800 | 3,300 | 11,100 |
| 5070 | Sulawesi Tengah | 7,809 | 900 | 4,800 | 5,300 | 4,600 | 15,600 |
| 5080 | Sulawesi Tengah | 9,463 | 1,300 | 5,900 | 6,400 | 5,700 | 19,300 |

Table 6.2 Irrigation Development Potential Area by River Basin (3/3)

| River Basin Code | Representative Province | River Basin Area (km ²) | Irrigable rainfed field | Unit : ha | | | Total |
|------------------|-------------------------|-------------------------------------|-------------------------|------------------|---------------------------|--------------------------|---------|
| | | | | Fully suitable S | Conditionally suitable \$ | Marginally suitable \$\$ | |
| 5091 | Sulawesi Tengah | 8,518 | 4,400 | 6,300 | 5,800 | 6,600 | 23,100 |
| 5092 | Sulawesi Tengah | 6,317 | 11,400 | 7,100 | 4,600 | 8,700 | 31,800 |
| 5101 | Sulawesi Tenggara | 7,358 | 900 | 5,300 | 3,700 | 28,400 | 38,300 |
| 5102 | Sulawesi Tenggara | 7,426 | 700 | 5,500 | 3,300 | 36,000 | 45,500 |
| 5111 | Sulawesi Tenggara | 6,552 | 600 | 4,800 | 2,900 | 31,800 | 40,100 |
| 5112 | Sulawesi Tenggara | 9,434 | 900 | 7,000 | 4,200 | 45,800 | 57,900 |
| 5120 | Sulawesi Tenggara | 6,217 | 1,700 | 4,900 | 2,900 | 28,900 | 38,400 |
| 5131 | Sulawesi Selatan | 3,419 | 11,000 | 5,300 | 2,600 | 7,000 | 25,900 |
| 5132 | Sulawesi Selatan | 5,669 | 18,000 | 8,700 | 4,300 | 11,400 | 42,400 |
| 5133 | Sulawesi Selatan | 3,285 | 10,700 | 5,100 | 2,500 | 6,700 | 25,000 |
| 5141 | Sulawesi Selatan | 2,895 | 9,400 | 4,500 | 2,200 | 5,900 | 22,000 |
| 5142 | Sulawesi Selatan | 2,703 | 8,800 | 4,200 | 2,100 | 5,500 | 20,600 |
| 5143 | Sulawesi Selatan | 3,451 | 11,000 | 5,300 | 2,600 | 7,000 | 25,900 |
| 5144 | Sulawesi Selatan | 4,025 | 8,200 | 4,400 | 2,400 | 7,500 | 22,500 |
| 5151 | Sulawesi Selatan | 2,722 | 8,900 | 4,200 | 2,100 | 5,600 | 20,800 |
| 5152 | Sulawesi Selatan | 6,261 | 20,400 | 9,800 | 4,800 | 12,800 | 47,800 |
| 5153 | Sulawesi Selatan | 3,253 | 10,600 | 5,100 | 2,500 | 6,700 | 24,900 |
| 5161 | Sulawesi Selatan | 3,917 | 12,800 | 6,100 | 3,000 | 8,000 | 29,900 |
| 5162 | Sulawesi Selatan | 7,256 | 23,000 | 11,000 | 5,400 | 14,500 | 53,900 |
| 5171 | Sulawesi Selatan | 3,743 | 12,200 | 5,800 | 2,900 | 7,700 | 28,600 |
| 5172 | Sulawesi Selatan | 6,198 | 20,200 | 9,700 | 4,800 | 12,700 | 47,400 |
| 6010 | Maluku | 18,443 | 0 | 31,100 | 15,200 | 53,900 | 100,200 |
| 6020 | Maluku | 27,743 | 0 | 46,700 | 22,800 | 81,100 | 150,600 |
| 6030 | Maluku | 31,747 | 0 | 53,500 | 26,100 | 92,800 | 172,400 |
| 7010 | Irian Jaya | 103,293 | 0 | 289,300 | 164,600 | 84,000 | 537,900 |
| 7020 | Irian Jaya | 138,877 | 0 | 388,800 | 221,200 | 112,800 | 722,800 |
| 7030 | Irian Jaya | 97,396 | 0 | 272,200 | 154,900 | 79,000 | 506,100 |
| 7040 | Irian Jaya | 75,705 | 0 | 211,600 | 120,400 | 61,400 | 393,400 |

Source : JICA-FIDP

Table 6.3 Irrigation Potential Area by River Basin (1/3)

| River Basin Code | Representative Province | Projection Year | | | | | | |
|---------------------|----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 1010 | D.I.Aceh | 19.6 | 19.6 | 18.2 | 16.4 | 14.3 | 12.7 | 10.2 |
| 1020 | D.I.Aceh | 2.4 | 2.2 | 1.8 | 1.5 | 1.2 | 0.9 | 0.6 |
| 1030 | D.I.Aceh | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 |
| 1040 | D.I.Aceh | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| 1050 | D.I.Aceh | 33.6 | 33.6 | 33.6 | 33.6 | 33.6 | 33.6 | 33.6 |
| 1060 | D.I.Aceh | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 1071 | D.I.Aceh | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 |
| 1072 | D.I.Aceh | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 1080 | Sumatera Utara | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 |
| 1090 | Sumatera Utara | 14.2 | 13.3 | 11.7 | 10.8 | 8.2 | 7.7 | 6.3 |
| 1100 | Sumatera Utara | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1110 | Sumatera Utara | 16.3 | 16.1 | 15.7 | 15.5 | 15.2 | 15.1 | 14.9 |
| 1121 | Sumatera Utara | 8.1 | 8.0 | 7.3 | 6.9 | 6.4 | 6.3 | 5.8 |
| 1122 | Sumatera Utara | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 |
| 1131 | Sumatera Utara | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 |
| 1132 | Sumatera Utara | 36.4 | 36.2 | 35.7 | 35.5 | 35.2 | 35.1 | 34.8 |
| 1141 | Sumatera Utara | 105.4 | 105.4 | 105.4 | 105.4 | 105.4 | 105.4 | 105.4 |
| 1142 | Sumatera Utara | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 |
| 1150 | Riau | 195.4 | 195.4 | 195.4 | 195.4 | 195.4 | 195.4 | 195.4 |
| 1161 | Riau | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 |
| 1162 | Riau | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 |
| 1171 | Riau | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 |
| 1172 | Riau | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 1181 | Riau | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 | 273.7 |
| 1182 | Riau | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 |
| 1191 | Sumatera Barat | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 |
| 1192 | Sumatera Barat | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 1201 | Sumatera Barat | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 1202 | Sumatera Barat | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |
| 1210 | Jambi | 464.9 | 464.9 | 464.9 | 464.9 | 464.9 | 464.9 | 464.9 |
| 1220 | Sumatera Selatan | 138.0 | 138.0 | 138.0 | 138.0 | 138.0 | 138.0 | 138.0 |
| 1230 | Sumatera Selatan | 217.4 | 217.4 | 217.4 | 217.4 | 217.4 | 217.4 | 217.4 |
| 1241 | Sumatera Selatan | 735.0 | 735.0 | 735.0 | 735.0 | 735.0 | 735.0 | 735.0 |
| 1242 | Sumatera Selatan | 238.9 | 238.9 | 238.9 | 238.9 | 238.9 | 238.9 | 238.9 |
| 1250 | Lampung | 172.0 | 171.6 | 170.6 | 170.2 | 169.8 | 169.4 | 169.1 |
| 1261 | Lampung | 35.9 | 35.5 | 34.5 | 34.1 | 33.6 | 33.4 | 33.0 |
| 1262 | Lampung | 41.1 | 40.0 | 37.9 | 36.8 | 35.6 | 35.4 | 34.1 |
| 1270 | Lampung | 101.0 | 101.0 | 101.0 | 101.0 | 101.0 | 101.0 | 101.0 |
| 1280 | Bengkulu | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 |
| 1290 | Bengkulu | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| 1300 | Bengkulu | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 |

Table 6.3 Irrigation Potential Area by River Basin (2/3)

| River Basin Code | Representative Province | Projection Year | | | | | | |
|---------------------|----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 2011 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2012 | Jawa Barat | 19.0 | 18.5 | 17.6 | 17.1 | 16.6 | 16.4 | 15.8 |
| 2020 | DKIJakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2030 | Jawa Barat | 60.2 | 58.6 | 54.0 | 52.1 | 50.0 | 48.9 | 46.6 |
| 2041 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2042 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2051 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2052 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2060 | Jawa Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2070 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2080 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2091 | Jawa Tengah | 4.2 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2092 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2101 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2102 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2103 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2111 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2112 | Yogyakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2121 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2122 | Jawa Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2123 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2131 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2132 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2133 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2141 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2142 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2143 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2150 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3011 | Bali | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3012 | Bali | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3020 | Nusa Tenggara Barat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3030 | Nusa Tenggara Barat | 8.6 | 8.3 | 7.7 | 7.3 | 6.9 | 6.8 | 6.4 |
| 3040 | Nusa Tenggara Timur | 15.2 | 15.1 | 14.8 | 14.7 | 14.5 | 14.4 | 14.2 |
| 3050 | Nusa Tenggara Timur | 10.3 | 10.1 | 9.7 | 9.4 | 9.1 | 8.9 | 8.6 |
| 3060 | Nusa Tenggara Timur | 28.2 | 28.0 | 27.5 | 27.2 | 26.8 | 26.6 | 26.2 |
| 3070 | Timor Timur | 35.9 | 35.8 | 35.5 | 35.4 | 35.2 | 35.1 | 34.9 |
| 4010 | Kalimantan Selatan | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 | 270.7 |
| 4021 | Kalimantan Tengah | 192.6 | 192.6 | 192.6 | 192.6 | 192.6 | 192.6 | 192.6 |
| 4022 | Kalimantan Selatan | 401.6 | 401.6 | 401.6 | 401.6 | 401.6 | 401.6 | 401.6 |
| 4030 | Kalimantan Tengah | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 |
| 4040 | Kalimantan Tengah | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 |
| 4050 | Kalimantan Tengah | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 |
| 4061 | Kalimantan Tengah | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 |
| 4062 | Kalimantan Tengah | 129.9 | 129.9 | 129.9 | 129.9 | 129.9 | 129.9 | 129.9 |
| 4070 | Kalimantan Barat | 263.8 | 263.8 | 263.8 | 263.8 | 263.8 | 263.8 | 263.8 |
| 4080 | Kalimantan Barat | 742.8 | 742.8 | 742.8 | 742.8 | 742.8 | 742.8 | 742.8 |
| 4090 | Kalimantan Barat | 110.9 | 110.9 | 110.9 | 110.9 | 110.9 | 110.9 | 110.9 |
| 4100 | Kalimantan Timur | 202.3 | 202.3 | 202.3 | 202.3 | 202.3 | 202.3 | 202.3 |
| 4110 | Kalimantan Timur | 211.3 | 211.3 | 211.3 | 211.3 | 211.3 | 211.3 | 211.3 |
| 4120 | Kalimantan Timur | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 |
| 4130 | Kalimantan Timur | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 |
| 4141 | Kalimantan Timur | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |
| 4142 | Kalimantan Timur | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 |

Table 6.3 Irrigation Potential Area by River Basin (3/3)

| River Basin Code | Representative Province | Projection Year | | | | | | |
|------------------|-------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 5011 | Sulawesi Utara | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 5012 | Sulawesi Utara | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 5013 | Sulawesi Utara | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 5021 | Sulawesi Utara | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| 5022 | Sulawesi Utara | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 |
| 5031 | Sulawesi Utara | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 5032 | Sulawesi Utara | 15.0 | 14.9 | 14.8 | 14.7 | 14.6 | 14.6 | 14.5 |
| 5041 | Sulawesi Tengah | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 |
| 5042 | Sulawesi Tengah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5050 | Sulawesi Tengah | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 |
| 5061 | Sulawesi Tengah | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 5062 | Sulawesi Tengah | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 5070 | Sulawesi Tengah | 14.9 | 14.8 | 14.7 | 14.5 | 14.4 | 14.3 | 14.1 |
| 5080 | Sulawesi Tengah | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 |
| 5091 | Sulawesi Tengah | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 5092 | Sulawesi Tengah | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 |
| 5101 | Sulawesi Tenggara | 34.7 | 34.5 | 34.1 | 33.8 | 33.4 | 33.1 | 32.7 |
| 5102 | Sulawesi Tenggara | 32.8 | 32.6 | 32.2 | 31.9 | 31.6 | 31.3 | 30.9 |
| 5111 | Sulawesi Tenggara | 30.3 | 30.1 | 29.6 | 29.2 | 28.7 | 28.3 | 27.7 |
| 5112 | Sulawesi Tenggara | 25.9 | 25.7 | 25.4 | 25.0 | 24.6 | 24.3 | 23.9 |
| 5120 | Sulawesi Tenggara | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 |
| 5131 | Sulawesi Selatan | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| 5132 | Sulawesi Selatan | 36.7 | 36.7 | 36.6 | 36.6 | 36.6 | 36.6 | 36.5 |
| 5133 | Sulawesi Selatan | 13.6 | 13.5 | 13.5 | 13.5 | 13.4 | 13.4 | 13.4 |
| 5141 | Sulawesi Selatan | 12.4 | 12.4 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 5142 | Sulawesi Selatan | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 |
| 5143 | Sulawesi Selatan | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| 5144 | Sulawesi Selatan | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 5151 | Sulawesi Selatan | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| 5152 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5153 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5161 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5162 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5171 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5172 | Sulawesi Selatan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6010 | Maluku | 41.6 | 41.5 | 41.4 | 41.3 | 41.1 | 41.1 | 40.9 |
| 6020 | Maluku | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 |
| 6030 | Maluku | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 | 172.4 |
| 7010 | Irian Jaya | 537.9 | 537.9 | 537.9 | 537.9 | 537.9 | 537.9 | 537.9 |
| 7020 | Irian Jaya | 722.8 | 722.8 | 722.8 | 722.8 | 722.8 | 722.8 | 722.8 |
| 7030 | Irian Jaya | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |
| 7040 | Irian Jaya | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 | 393.4 |

Source : JICA-FIDP Team calculation

Table 6.4 Irrigation Potential Area by Province (1990-2020)

('000 ha)

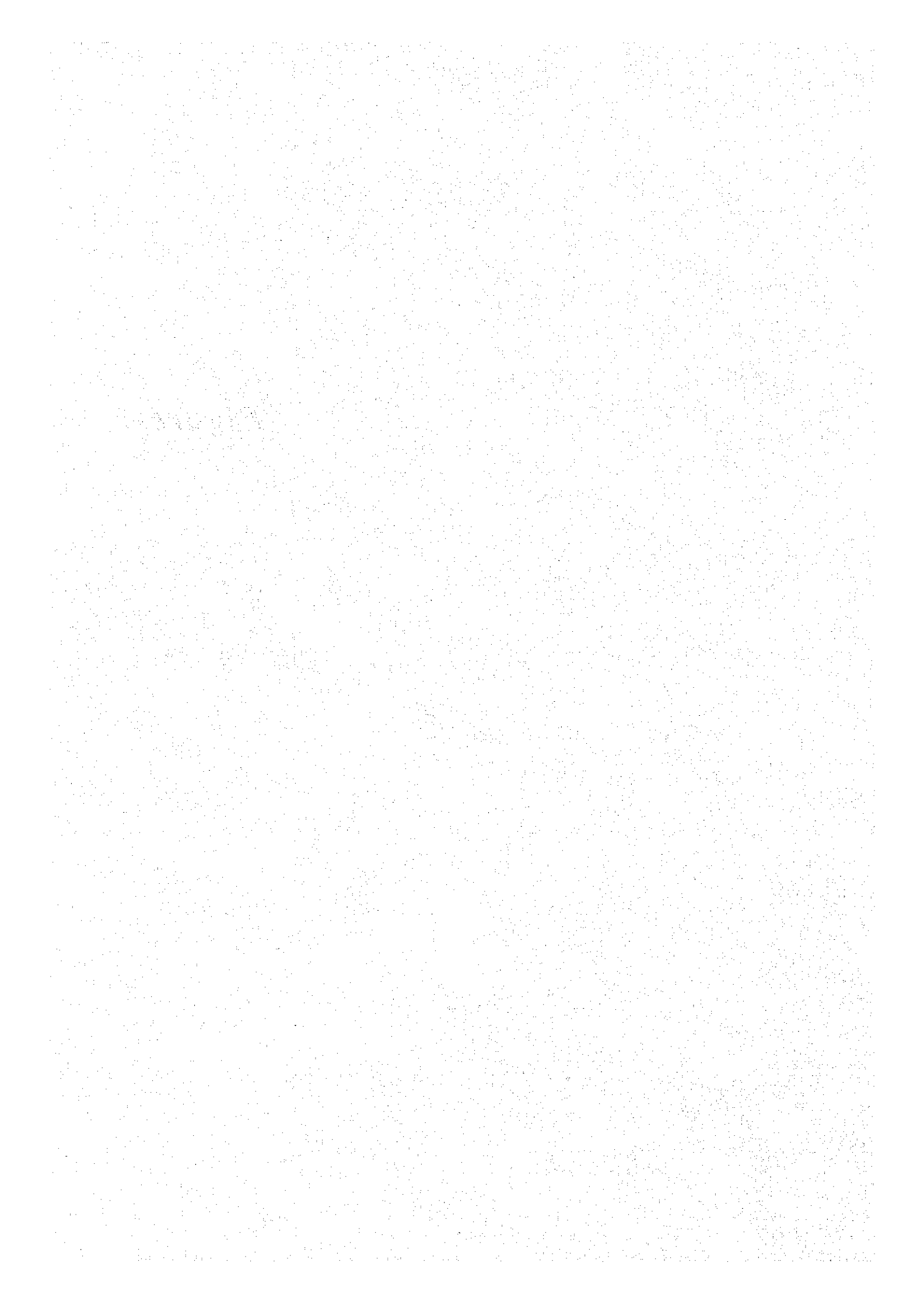
| Code | Province | Projection Year | | | | | | |
|------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 |
| 11 | D.I.Aceh | 274.5 | 274.3 | 272.4 | 270.4 | 267.9 | 266.0 | 263.1 |
| 12 | Sumatera Utara | 379.6 | 378.2 | 375.1 | 373.4 | 369.9 | 369.0 | 366.6 |
| 13 | Sumatera Barat | 283.6 | 283.6 | 283.6 | 283.6 | 283.6 | 283.6 | 283.6 |
| 14 | Riau | 875.8 | 875.8 | 875.8 | 875.8 | 875.8 | 875.8 | 875.8 |
| 15 | Jambi | 500.4 | 500.4 | 500.4 | 500.4 | 500.4 | 500.4 | 500.4 |
| 16 | Sumatera Selatan | 1,275.0 | 1,274.9 | 1,274.6 | 1,274.5 | 1,274.4 | 1,274.3 | 1,274.2 |
| 17 | Bengkulu | 117.8 | 117.8 | 117.8 | 117.8 | 117.8 | 117.8 | 117.8 |
| 18 | Lampung | 302.7 | 300.9 | 297.1 | 295.3 | 293.4 | 292.6 | 290.7 |
| | SUMATERA | 4,009.4 | 4,005.9 | 3,996.8 | 3,991.2 | 3,983.2 | 3,979.5 | 3,972.2 |
| 31 | DKI.Jakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32 | Jawa Barat | 79.2 | 77.2 | 71.6 | 69.2 | 66.6 | 65.2 | 62.3 |
| 33 | Jawa Tengah | 4.2 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 | Yogyakarta | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35 | Jawa Timur | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | JAWA | 83.4 | 80.0 | 71.6 | 69.2 | 66.6 | 65.2 | 62.3 |
| 51 | Bali | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52 | Nusa Tenggara Bar | 8.6 | 8.3 | 7.7 | 7.3 | 6.9 | 6.8 | 6.4 |
| 53 | Nusa Tenggara Tim | 55.1 | 54.5 | 53.4 | 52.6 | 51.8 | 51.2 | 50.4 |
| 54 | Timor Timur | 34.6 | 34.5 | 34.2 | 34.0 | 33.9 | 33.8 | 33.6 |
| | BALI & NT | 98.3 | 97.3 | 95.3 | 93.9 | 92.6 | 91.8 | 90.4 |
| 61 | Kalimantan Barat | 1,135.9 | 1,135.9 | 1,135.9 | 1,135.9 | 1,135.9 | 1,135.9 | 1,135.9 |
| 62 | Kalimantan Selatan | 821.2 | 821.2 | 821.2 | 821.2 | 821.2 | 821.2 | 821.2 |
| 63 | Kalimantan Tengah | 478.3 | 478.3 | 478.3 | 478.3 | 478.3 | 478.3 | 478.3 |
| 64 | Kalimantan Timur | 1,257.2 | 1,257.2 | 1,257.2 | 1,257.2 | 1,257.2 | 1,257.2 | 1,257.2 |
| | KALIMANTAN | 3,692.6 | 3,692.6 | 3,692.6 | 3,692.6 | 3,692.6 | 3,692.6 | 3,692.6 |
| 71 | Sulawesi Utara | 69.5 | 69.3 | 69.0 | 68.8 | 68.5 | 68.4 | 68.2 |
| 72 | Sulawesi Tengah | 136.5 | 136.4 | 136.2 | 136.0 | 135.7 | 135.5 | 135.2 |
| 73 | Sulawesi Tenggara | 174.2 | 174.1 | 173.9 | 173.8 | 173.7 | 173.7 | 173.6 |
| 74 | Sulawesi Selatan | 154.8 | 154.0 | 152.5 | 151.2 | 149.6 | 148.4 | 146.6 |
| | SULAWESI | 535.0 | 533.8 | 531.6 | 529.8 | 527.5 | 526.0 | 523.6 |
| 81 | Maluku | 364.6 | 364.5 | 364.4 | 364.3 | 364.1 | 364.1 | 363.9 |
| 82 | Irian Jaya | 2,160.2 | 2,160.2 | 2,160.2 | 2,160.2 | 2,160.2 | 2,160.2 | 2,160.2 |
| | MALUKU & IJ | 2,524.8 | 2,524.7 | 2,524.6 | 2,524.5 | 2,524.3 | 2,524.3 | 2,524.1 |
| | INDONESIA | 10,943.5 | 10,934.3 | 10,912.5 | 10,901.2 | 10,886.8 | 10,879.4 | 10,865.2 |

Source : JICA FIDP Team Calculation

Table 6.5 Irrigation Potential Area and Its Limited Factor

| Region | River Basin Code | Potential | | | Limited by | |
|------------|------------------|-----------|-----------|------------|------------|-------|
| | | Water | Land | Irrigation | | |
| Sumatera | 1010 | 9,400 | 19,600 | 9,400 | Water | |
| | 1020 | 449 | 13,500 | 449 | Water | |
| | 1030 | 38,640 | 29,000 | 29,000 | Land | |
| | 1040 | 74,316 | 34,400 | 34,400 | Land | |
| | 1050 | 53,549 | 33,600 | 33,600 | Land | |
| | 1060 | 392,547 | 34,800 | 34,800 | Land | |
| | 1071 | 494,669 | 54,300 | 54,300 | Land | |
| | 1072 | 79,441 | 9,900 | 9,900 | Land | |
| | 1080 | 325,186 | 91,000 | 91,000 | Land | |
| | 1090 | 7,216 | 54,200 | 7,216 | Water | |
| | 1100 | 0 | 47,900 | 0 | Water | |
| | 1110 | 15,072 | 23,900 | 15,072 | Water | |
| | 1121 | 5,978 | 8,100 | 5,978 | Water | |
| | 1122 | 52,259 | 35,100 | 35,100 | Land | |
| | 1131 | 97,248 | 59,600 | 59,600 | Land | |
| | 1132 | 34,933 | 65,300 | 34,933 | Water | |
| | 1141 | 372,064 | 105,400 | 105,400 | Land | |
| | 1142 | 262,967 | 37,400 | 37,400 | Land | |
| | 1150 | 402,716 | 195,400 | 195,400 | Land | |
| | 1161 | 421,276 | 166,200 | 166,200 | Land | |
| | 1162 | 87,384 | 57,700 | 57,700 | Land | |
| | 1171 | 1,060,823 | 287,600 | 287,600 | Land | |
| | 1172 | 51,145 | 35,900 | 35,900 | Land | |
| | 1181 | 612,694 | 273,700 | 273,700 | Land | |
| | 1182 | 62,054 | 40,500 | 40,500 | Land | |
| | 1191 | 322,550 | 36,700 | 36,700 | Land | |
| | 1192 | 103,435 | 6,300 | 6,300 | Land | |
| | 1201 | 219,295 | 37,300 | 37,300 | Land | |
| | 1202 | 101,951 | 16,200 | 16,200 | Land | |
| | 1210 | 1,178,993 | 464,900 | 464,900 | Land | |
| 1220 | 219,279 | 138,000 | 138,000 | Land | | |
| 1230 | 367,452 | 217,400 | 217,400 | Land | | |
| 1241 | 763,130 | 735,000 | 735,000 | Land | | |
| 1242 | 243,086 | 238,900 | 238,900 | Land | | |
| 1250 | 169,050 | 236,300 | 169,050 | Water | | |
| 1261 | 33,106 | 126,600 | 33,106 | Water | | |
| 1262 | 34,611 | 82,600 | 34,611 | Water | | |
| 1270 | 230,670 | 101,000 | 101,000 | Land | | |
| 1280 | 513,569 | 33,900 | 33,900 | Land | | |
| 1290 | 507,295 | 26,800 | 26,800 | Land | | |
| 1300 | 197,314 | 29,600 | 29,600 | Land | | |
| Jawa | 2011 | 0 | 34,000 | 0 | Water | |
| | 2012 | 15,813 | 34,300 | 15,813 | Water | |
| | 2020 | 0 | 49,500 | 0 | Water | |
| | 2030 | 46,704 | 138,800 | 46,704 | Water | |
| | 2041 | 0 | 55,800 | 0 | Water | |
| | 2042 | 0 | 107,700 | 0 | Water | |
| | 2051 | 0 | 59,500 | 0 | Water | |
| | 2052 | 0 | 35,800 | 0 | Water | |
| | 2060 | 0 | 89,300 | 0 | Water | |
| | 2070 | 0 | 74,700 | 0 | Water | |
| | 2080 | 0 | 73,900 | 0 | Water | |
| | 2091 | 0 | 56,300 | 0 | Water | |
| | 2092 | 0 | 55,100 | 0 | Water | |
| | 2101 | 0 | 46,600 | 0 | Water | |
| | 2102 | 0 | 56,700 | 0 | Water | |
| | 2103 | 0 | 53,300 | 0 | Water | |
| | 2111 | 0 | 34,800 | 0 | Water | |
| | 2112 | 0 | 20,000 | 0 | Water | |
| | 2121 | 0 | 136,000 | 0 | Water | |
| | 2122 | 0 | 100,800 | 0 | Water | |
| | 2123 | 0 | 20,000 | 0 | Water | |
| | 2131 | 0 | 76,400 | 0 | Water | |
| | 2132 | 0 | 71,000 | 0 | Water | |
| | 2133 | 0 | 37,400 | 0 | Water | |
| | 2141 | 0 | 58,000 | 0 | Water | |
| 2142 | 0 | 62,600 | 0 | Water | | |
| 2143 | 0 | 61,700 | 0 | Water | | |
| 2150 | 0 | 69,100 | 0 | Water | | |
| Bali | 3011 | 0 | 19,300 | 0 | Water | |
| | 3012 | 0 | 53,700 | 0 | Water | |
| | NTB | 3020 | 0 | 22,900 | 0 | Water |
| | | 3030 | 6,571 | 77,700 | 6,571 | Water |
| | NTT | 3040 | 14,064 | 67,700 | 14,064 | Water |
| | | 3050 | 8,438 | 93,300 | 8,438 | Water |
| | | 3060 | 25,943 | 126,400 | 25,943 | Water |
| | | 3070 | 35,052 | 97,400 | 35,052 | Water |
| | Kalimantan | 4010 | 349,625 | 270,700 | 270,700 | Land |
| | | 4021 | 1,207,646 | 192,600 | 192,600 | Land |
| | | 4022 | 2,533,241 | 401,600 | 401,600 | Land |
| | | 4030 | 642,024 | 76,100 | 76,100 | Land |
| | | 4040 | 615,762 | 104,100 | 104,100 | Land |
| | | 4050 | 451,949 | 71,100 | 71,100 | Land |
| | | 4061 | 386,187 | 68,700 | 68,700 | Land |
| | | 4062 | 629,382 | 129,900 | 129,900 | Land |
| | | 4070 | 785,405 | 263,800 | 263,800 | Land |
| | | 4080 | 3,899,891 | 742,800 | 742,800 | Land |
| | | 4090 | 336,750 | 110,900 | 110,900 | Land |
| | | 4100 | 777,500 | 202,300 | 202,300 | Land |
| 4110 | | 1,500,986 | 211,300 | 211,300 | Land | |
| 4120 | | 313,581 | 122,400 | 122,400 | Land | |
| 4130 | 291,213 | 130,200 | 130,200 | Land | | |
| 4141 | 1,629,674 | 492,500 | 492,500 | Land | | |
| 4142 | 107,013 | 101,600 | 101,600 | Land | | |
| Sulawesi | 5011 | 40,016 | 10,500 | 10,500 | Land | |
| | 5012 | 22,158 | 6,600 | 6,600 | Land | |
| | 5013 | 128,284 | 18,200 | 18,200 | Land | |
| | 5021 | 35,982 | 9,400 | 9,400 | Land | |
| | 5022 | 5,737 | 10,600 | 5,737 | Water | |
| | 5031 | 12,476 | 2,800 | 2,800 | Land | |
| | 5032 | 14,484 | 18,700 | 14,484 | Water | |
| | 5041 | 87,735 | 18,600 | 18,600 | Land | |
| | 5042 | 0 | 8,400 | 0 | Water | |
| | 5050 | 109,743 | 19,300 | 19,300 | Land | |
| | 5061 | 61,467 | 6,900 | 6,900 | Land | |
| | 5062 | 96,340 | 11,100 | 11,100 | Land | |
| | 5070 | 13,977 | 15,600 | 13,977 | Water | |
| | 5080 | 84,391 | 19,300 | 19,300 | Land | |
| | 5091 | 49,019 | 23,100 | 23,100 | Land | |
| | 5092 | 43,316 | 31,800 | 31,800 | Land | |
| | 5101 | 32,386 | 38,300 | 32,386 | Water | |
| | 5102 | 30,617 | 45,500 | 30,617 | Water | |
| 5111 | 27,398 | 40,100 | 27,398 | Water | | |
| 5112 | 23,595 | 57,900 | 23,595 | Water | | |
| 5120 | 86,062 | 38,400 | 38,400 | Land | | |
| 5131 | 26,786 | 25,900 | 25,900 | Land | | |
| 5132 | 36,514 | 42,400 | 36,514 | Water | | |
| 5133 | 13,378 | 25,000 | 13,378 | Water | | |
| 5141 | 12,279 | 22,000 | 12,279 | Water | | |
| 5142 | 43,307 | 20,600 | 20,600 | Land | | |
| 5143 | 34,617 | 25,900 | 25,900 | Land | | |
| 5144 | 52,166 | 22,500 | 22,500 | Land | | |
| 5151 | 905 | 20,800 | 905 | Water | | |
| 5152 | 0 | 47,800 | 0 | Water | | |
| 5153 | 0 | 24,900 | 0 | Water | | |
| 5161 | 0 | 29,900 | 0 | Water | | |
| 5162 | 0 | 53,900 | 0 | Water | | |
| 5171 | 0 | 28,600 | 0 | Water | | |
| 5172 | 0 | 47,400 | 0 | Water | | |
| Maluku | 6010 | 40,882 | 100,200 | 40,882 | Water | |
| | 6020 | 500,558 | 150,600 | 150,600 | Land | |
| | 6030 | 674,448 | 172,400 | 172,400 | Land | |
| Irian Jaya | 7010 | 3,152,456 | 537,900 | 537,900 | Land | |
| | 7020 | 3,556,892 | 722,800 | 722,800 | Land | |
| | 7030 | 4,765,415 | 506,100 | 506,100 | Land | |
| | 7040 | 1,108,277 | 393,400 | 393,400 | Land | |

Figures



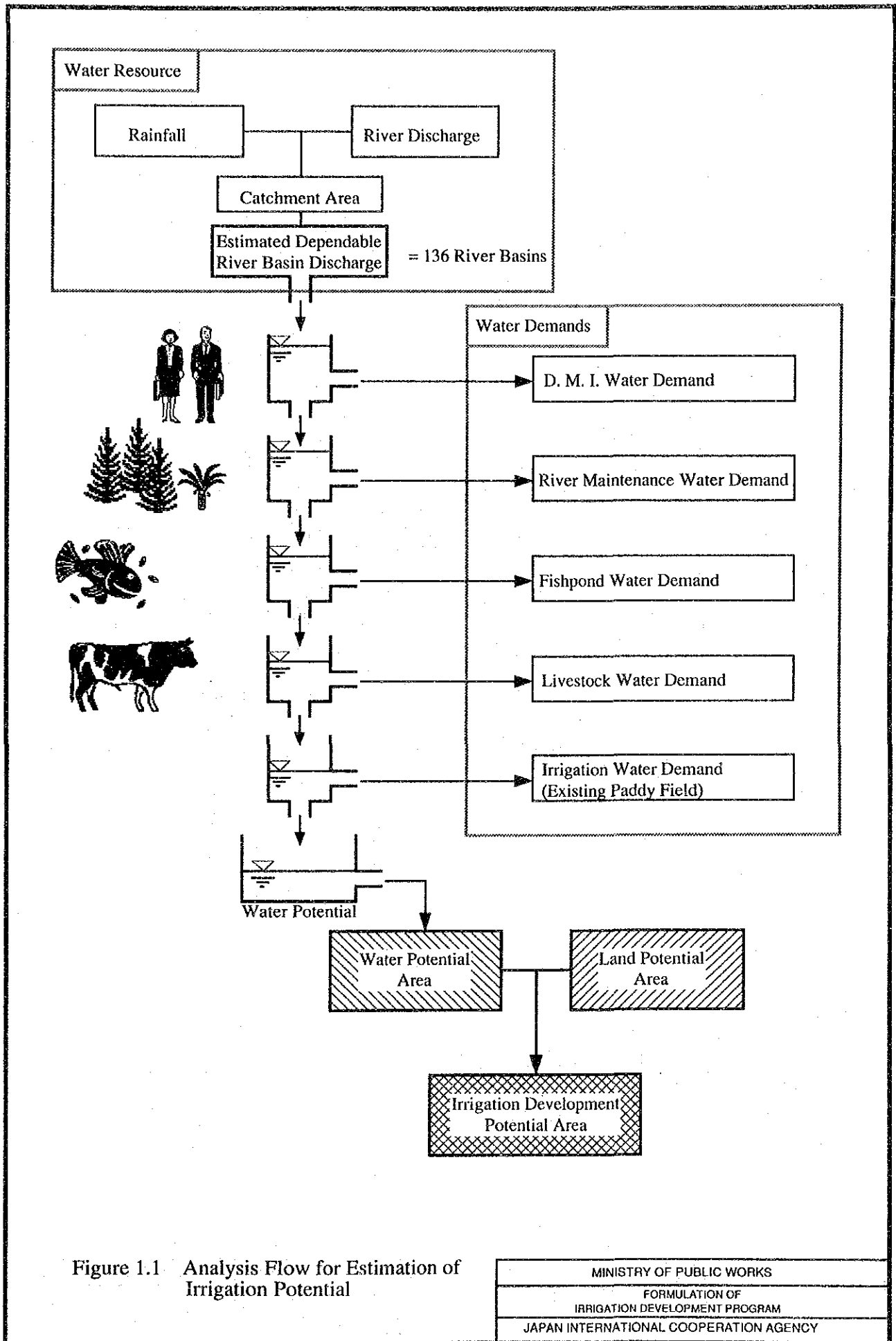


Figure 1.1 Analysis Flow for Estimation of Irrigation Potential

| |
|---|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

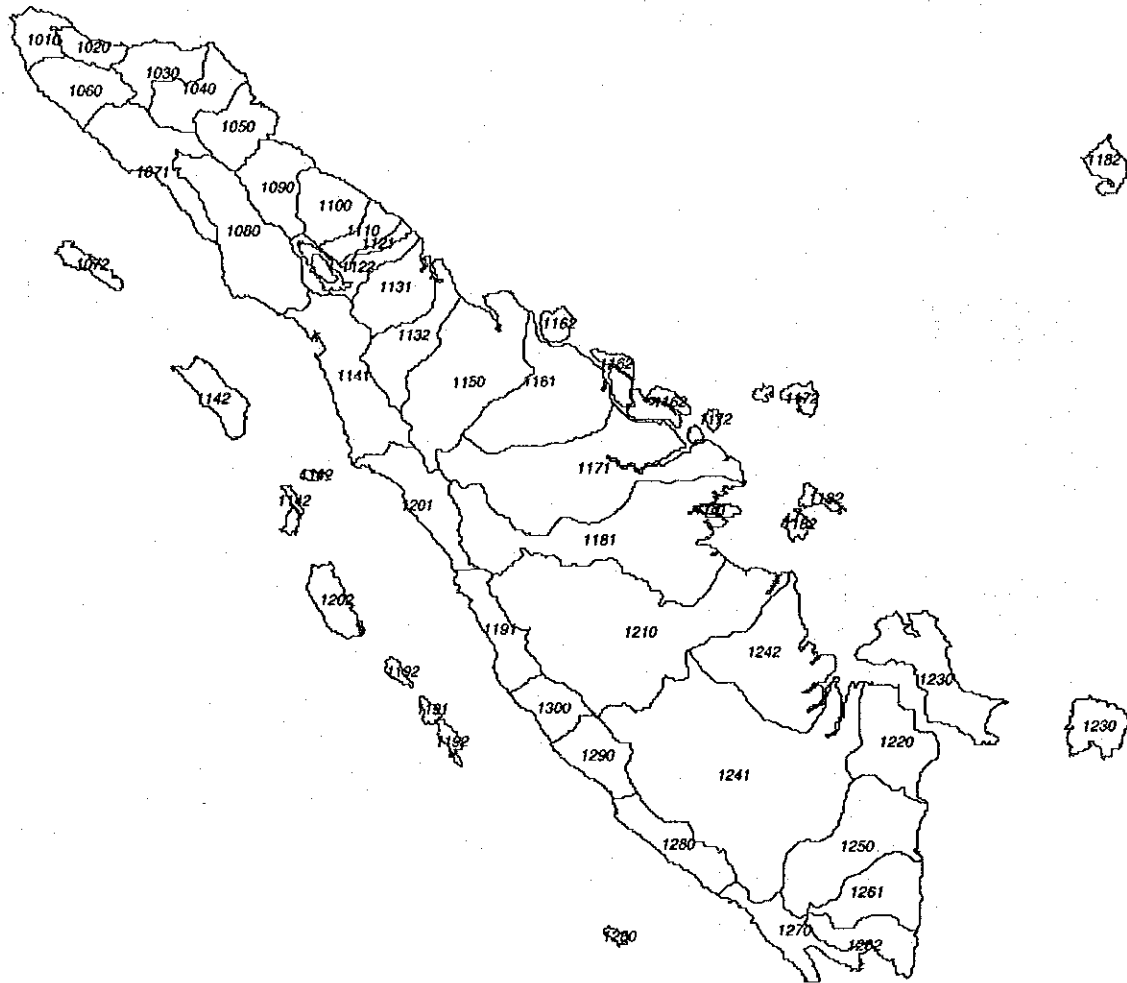


Figure 2.1 River Basin in Sumatera

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

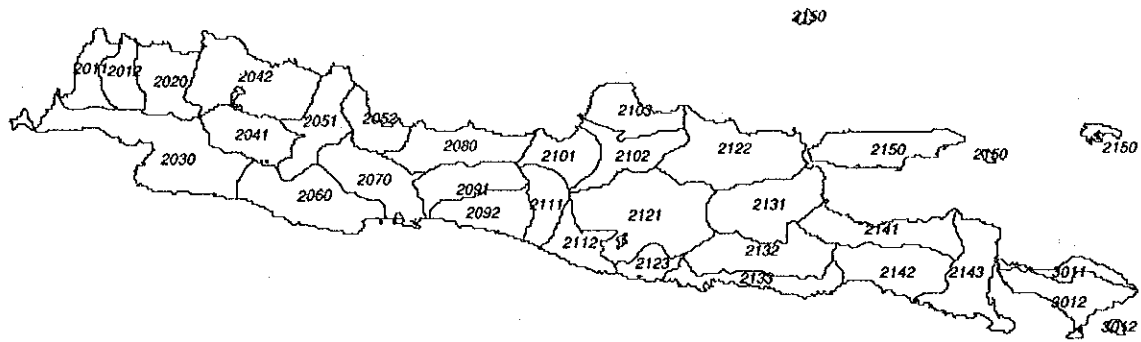


Figure 2.2 River Basin in Jawa and Bali

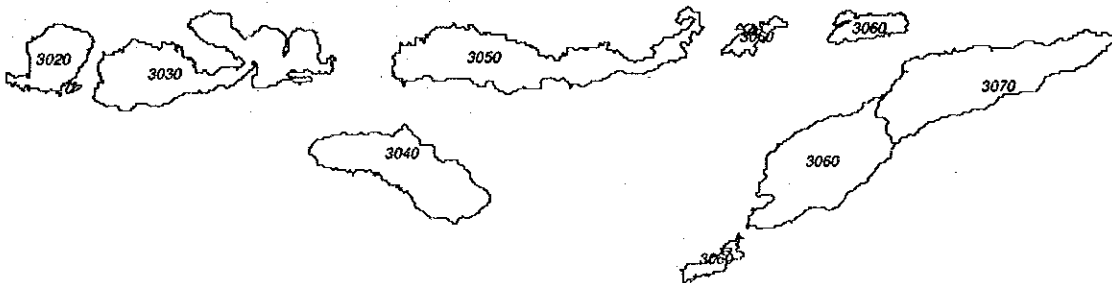


Figure 2.3 River Basin in Nusa Tenggara

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

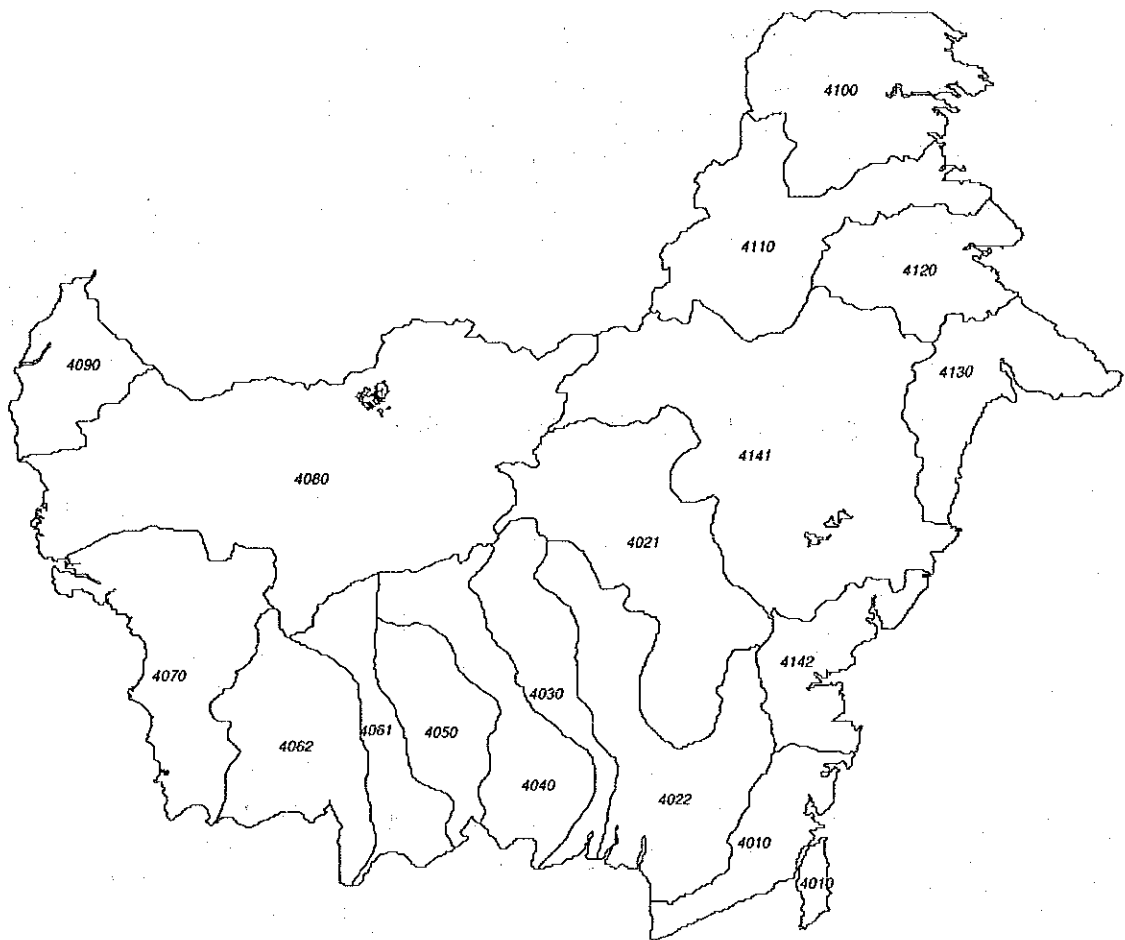
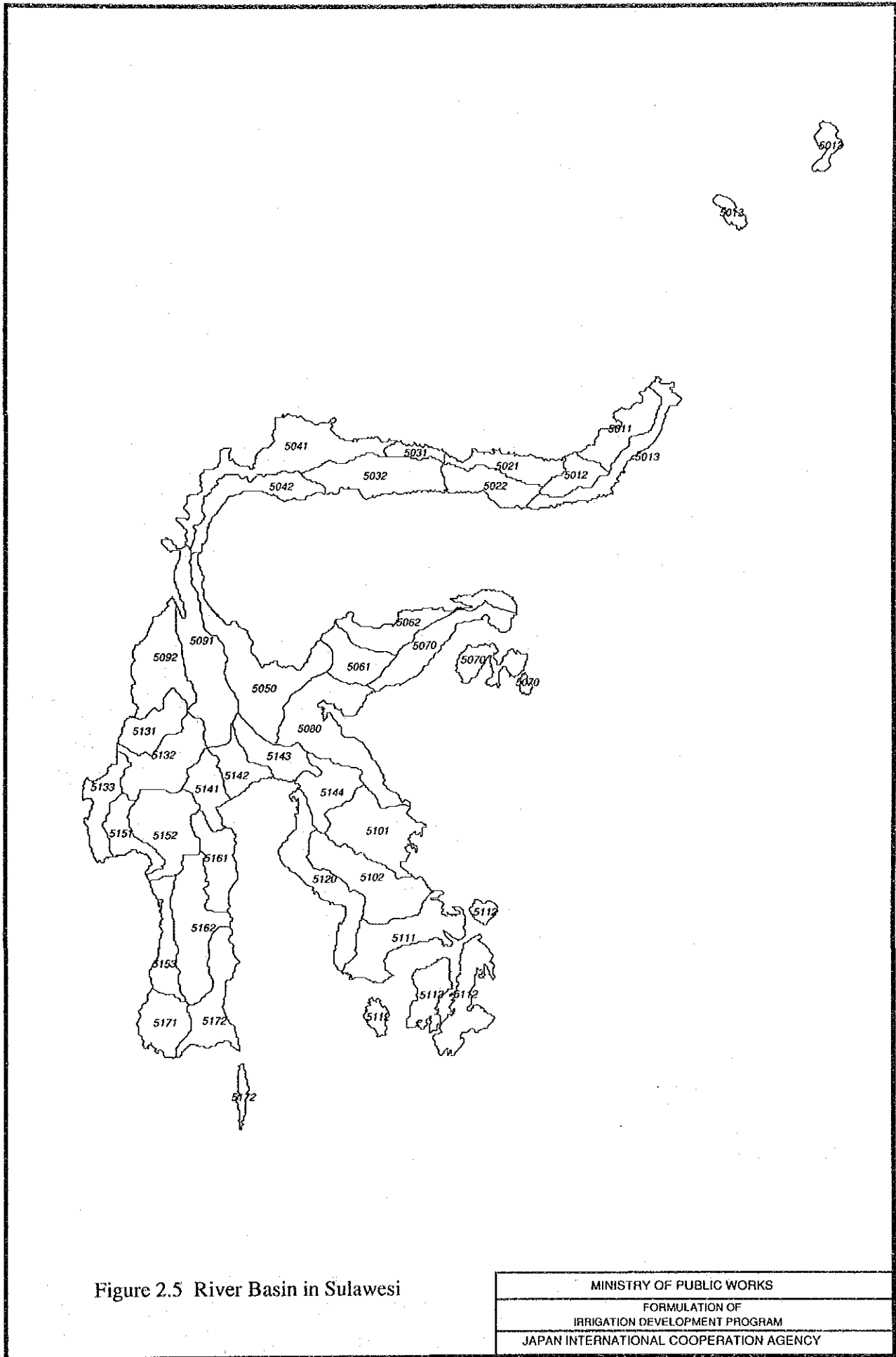


Figure 2.4 River Basin in Kalimantan

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |



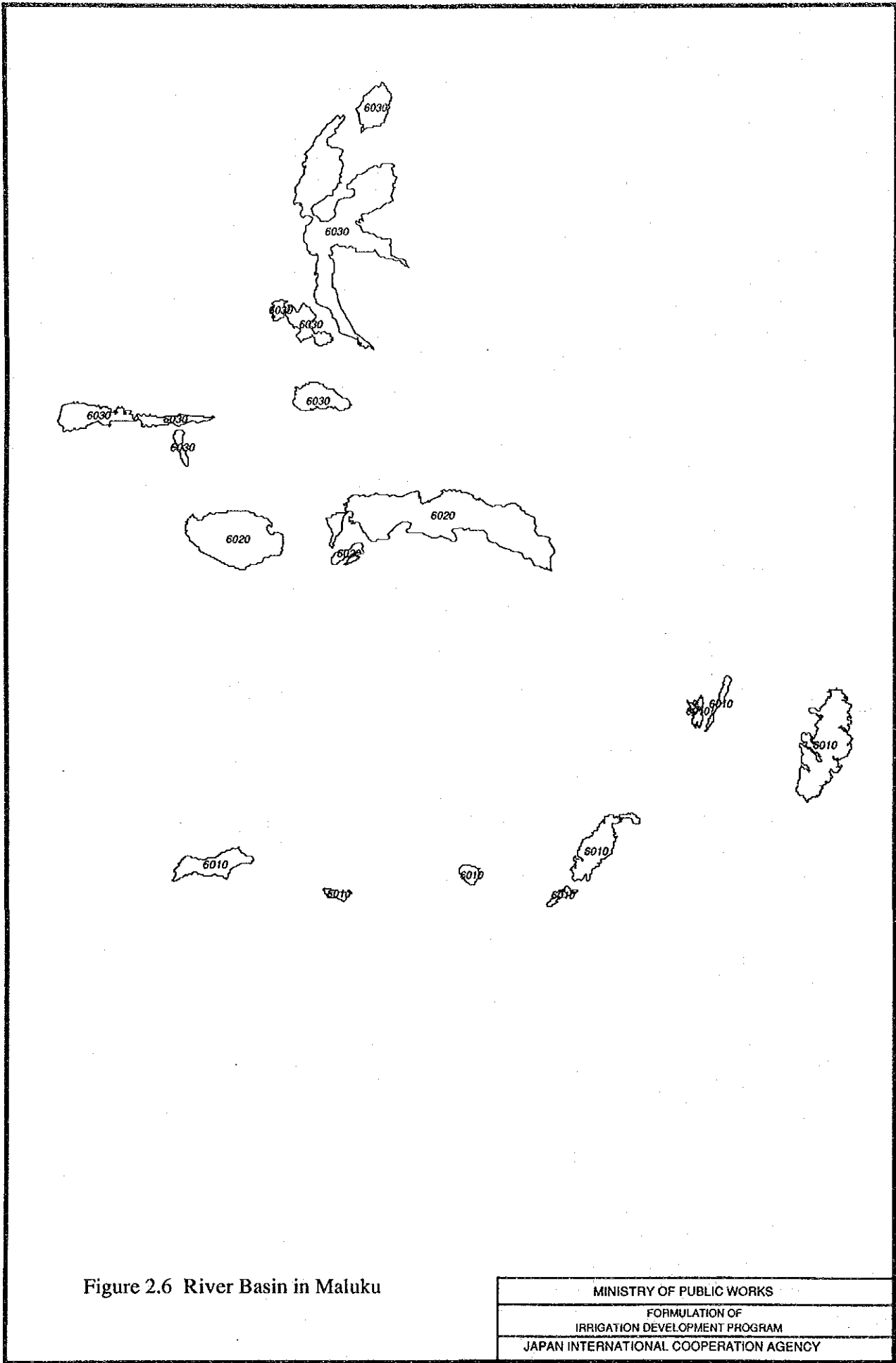


Figure 2.6 River Basin in Maluku

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

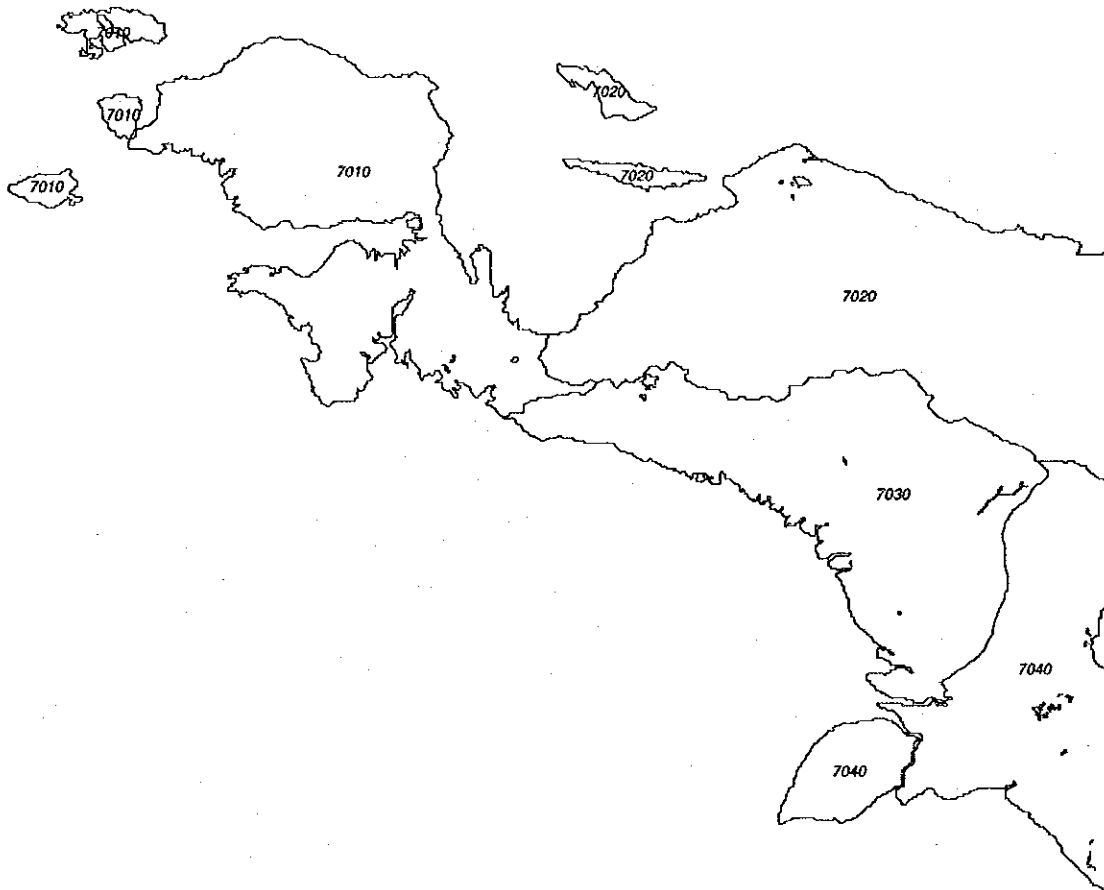


Figure 2.7 River Basin in Irian Jaya

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

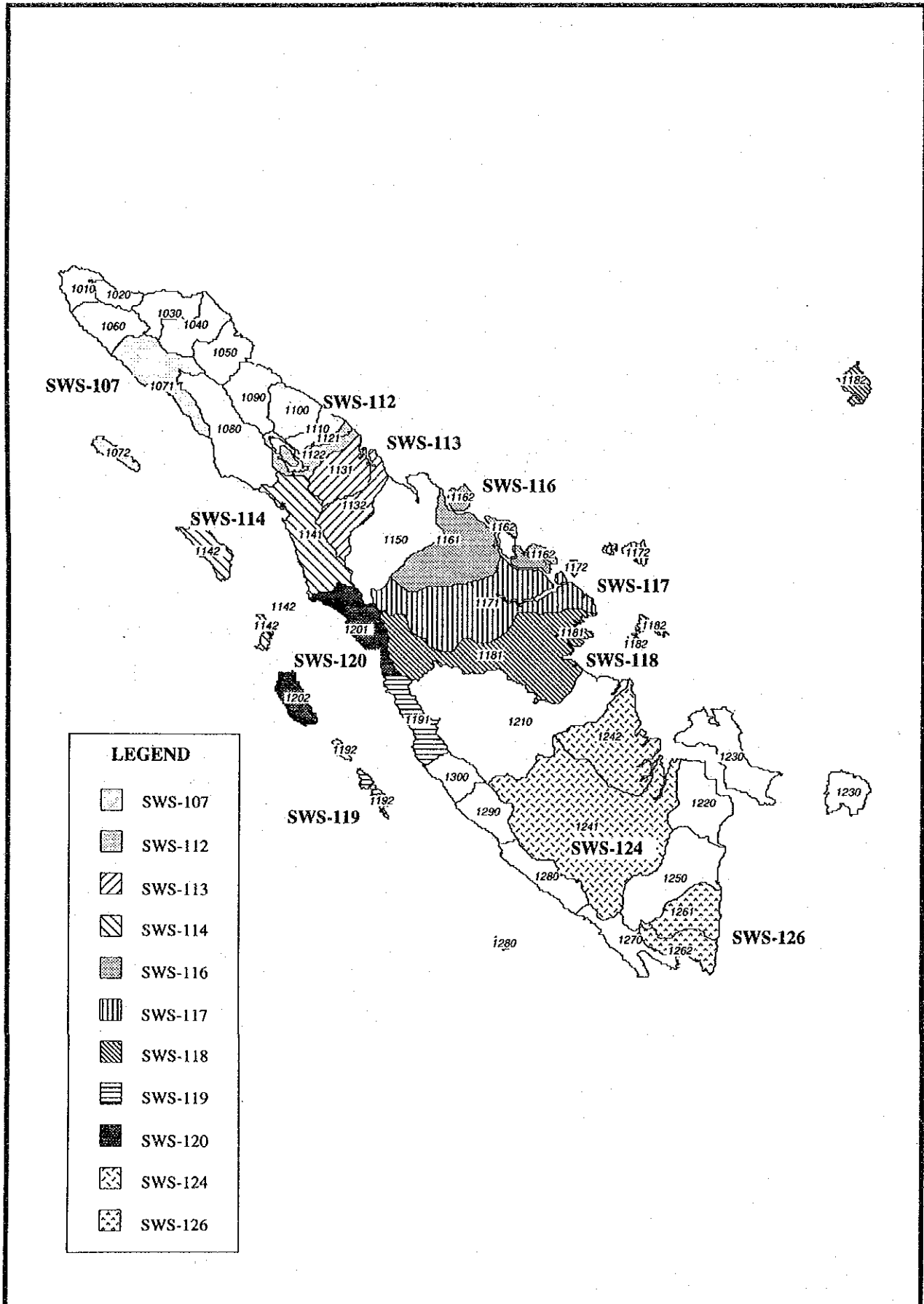
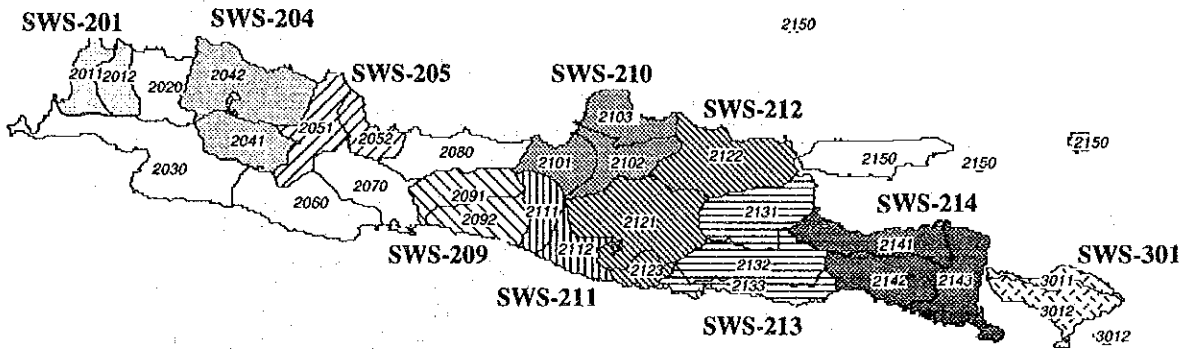


Figure 2.8 Divided SWS to River Basin in Sumatera

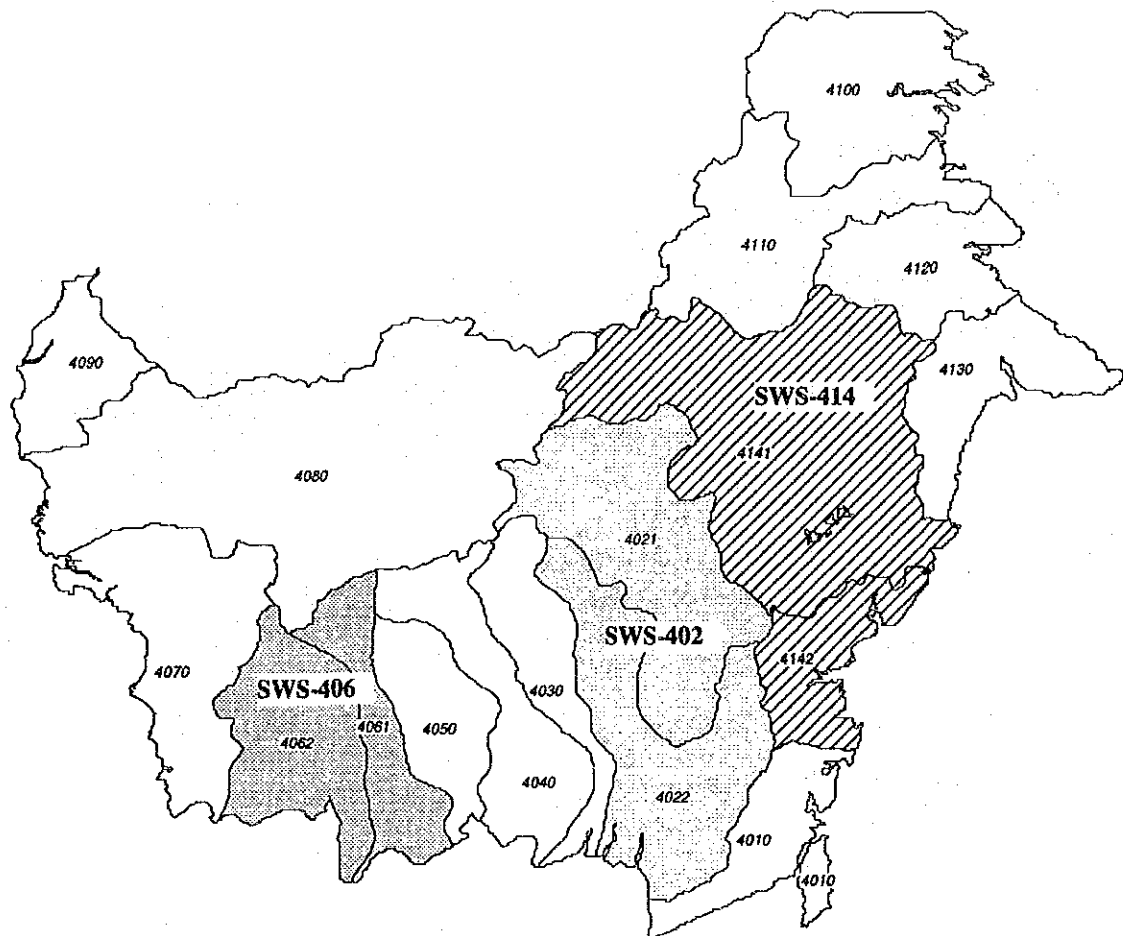
| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |



| LEGEND | | | | | |
|--------|---------|--|---------|--|---------|
| | SWS-201 | | SWS-205 | | SWS-210 |
| | SWS-204 | | SWS-209 | | SWS-212 |
| | | | SWS-211 | | SWS-213 |
| | | | | | SWS-214 |
| | | | | | SWS-301 |

Figure 2.9 Divided SWS to River Basin in Jawa and Bali

| |
|---|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |






| LEGEND | |
|---|---------|
|  | SWS-402 |
|  | SWS-406 |
|  | SWS-414 |

Figure 2.10 Divided SWS to River Basin in Kalimantan

| |
|---|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

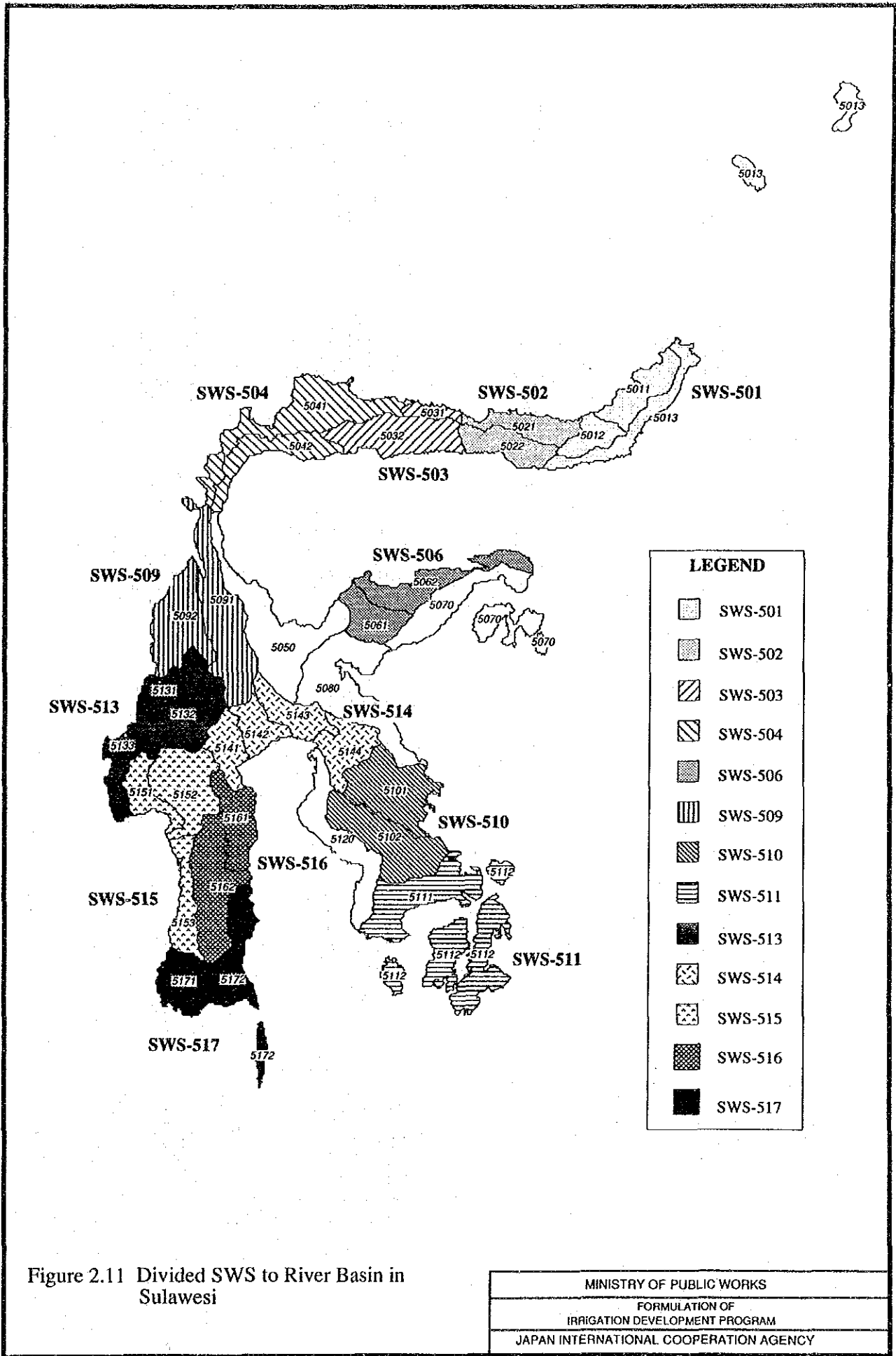
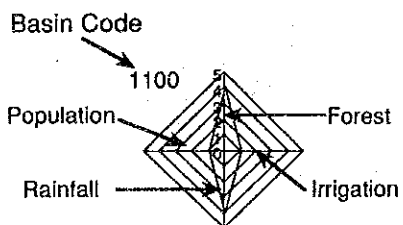
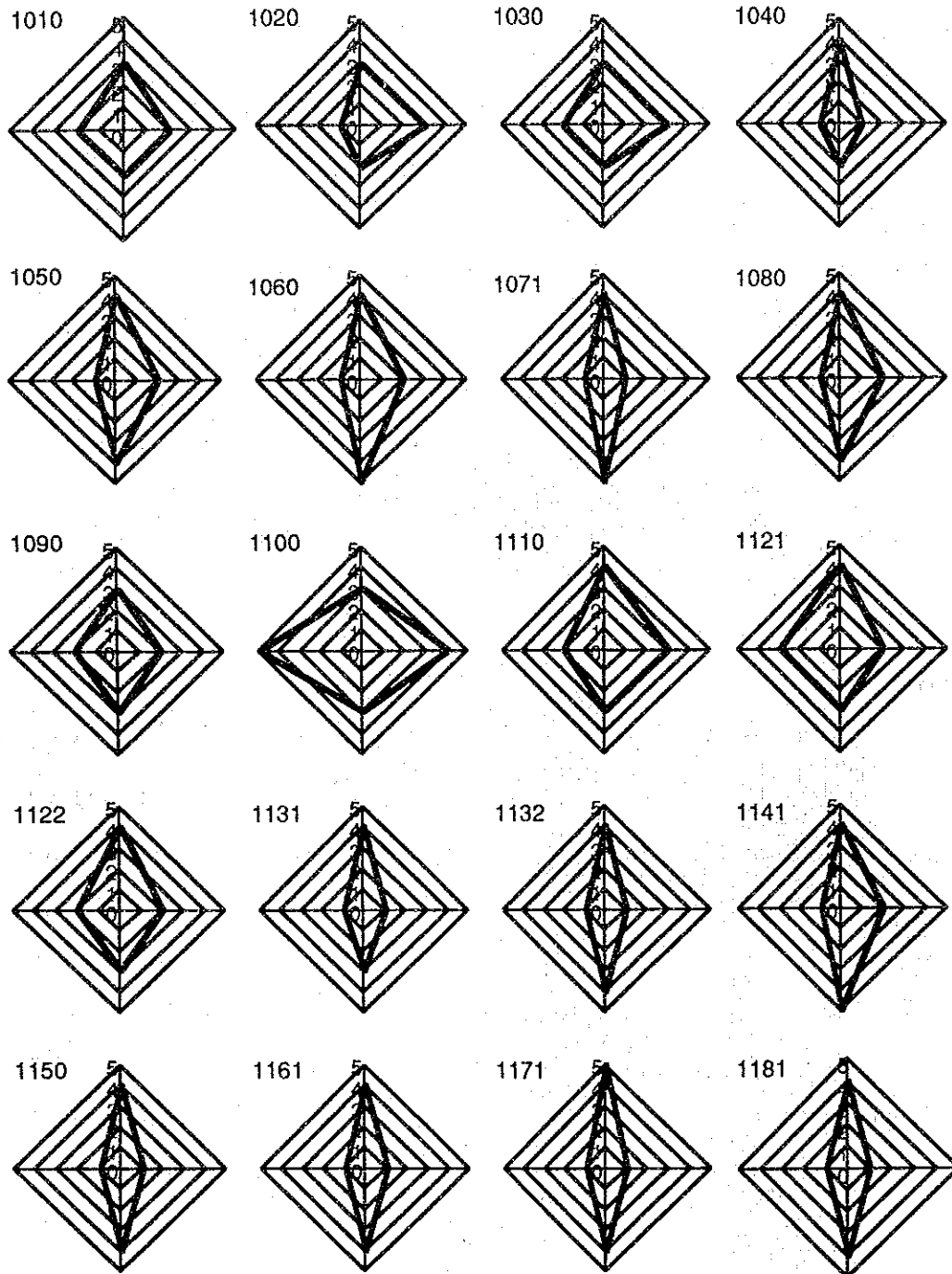


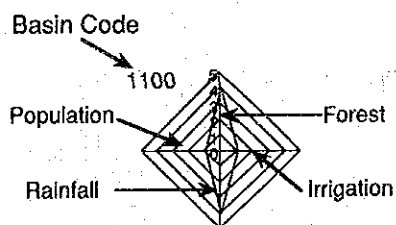
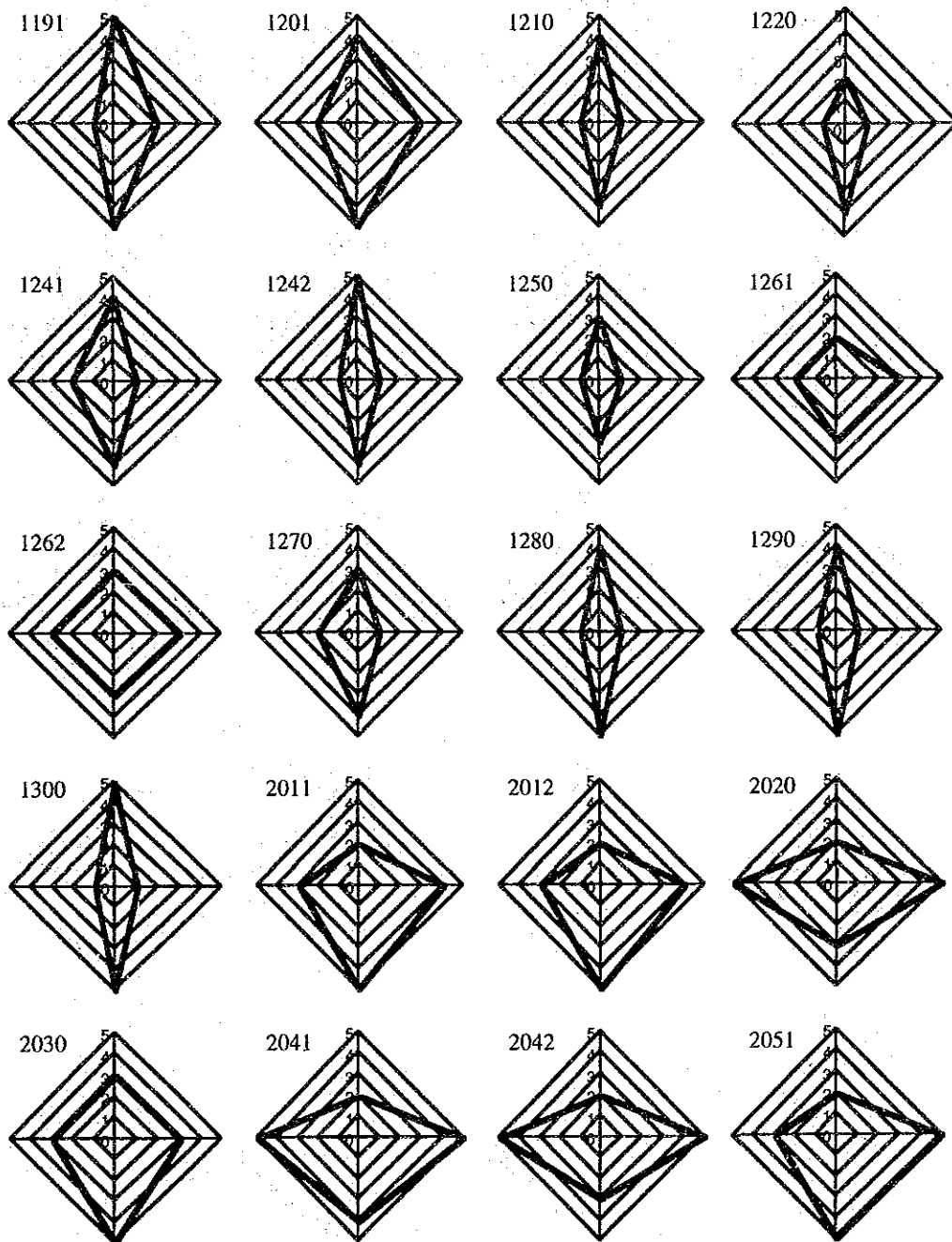
Figure 2.11 Divided SWS to River Basin in Sulawesi



| Class division | | | | |
|----------------|-------------|----------------|--------------------------------------|---------------|
| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 25 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (1/6)

MINISTRY OF PUBLIC WORKS
 FORMULATION OF
 IRRIGATION DEVELOPMENT PROGRAM
 JAPAN INTERNATIONAL COOPERATION AGENCY

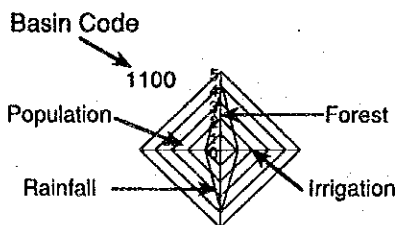
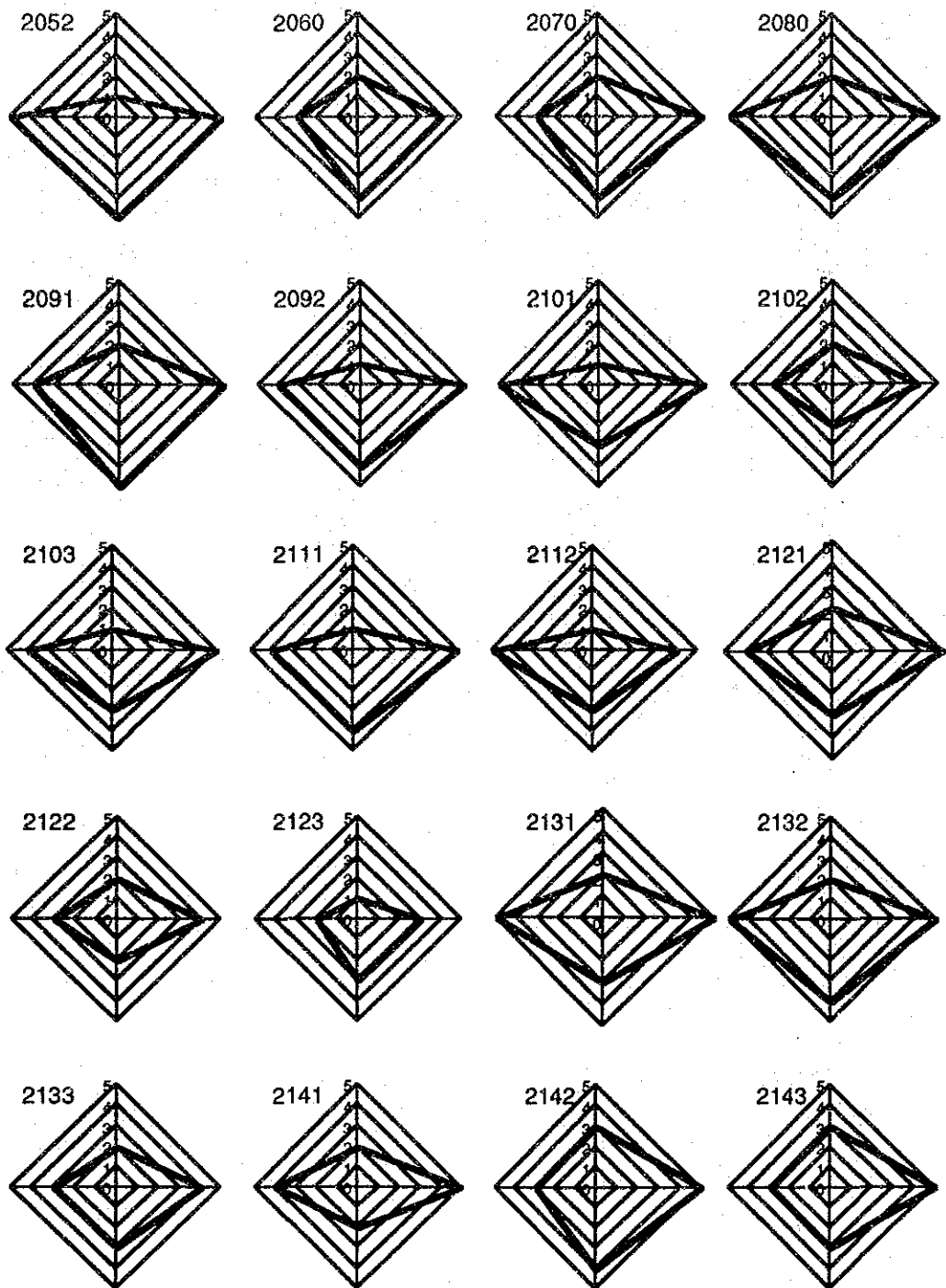


Class division

| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
|-------|-------------|----------------|--------------------------------------|---------------|
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 2.5 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (2/6)

MINISTRY OF PUBLIC WORKS
 FORMULATION OF
 IRRIGATION DEVELOPMENT PROGRAM
 JAPAN INTERNATIONAL COOPERATION AGENCY

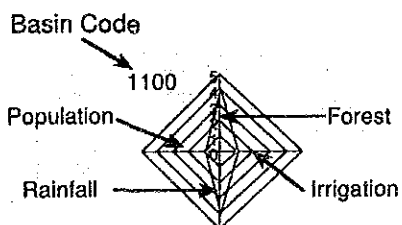
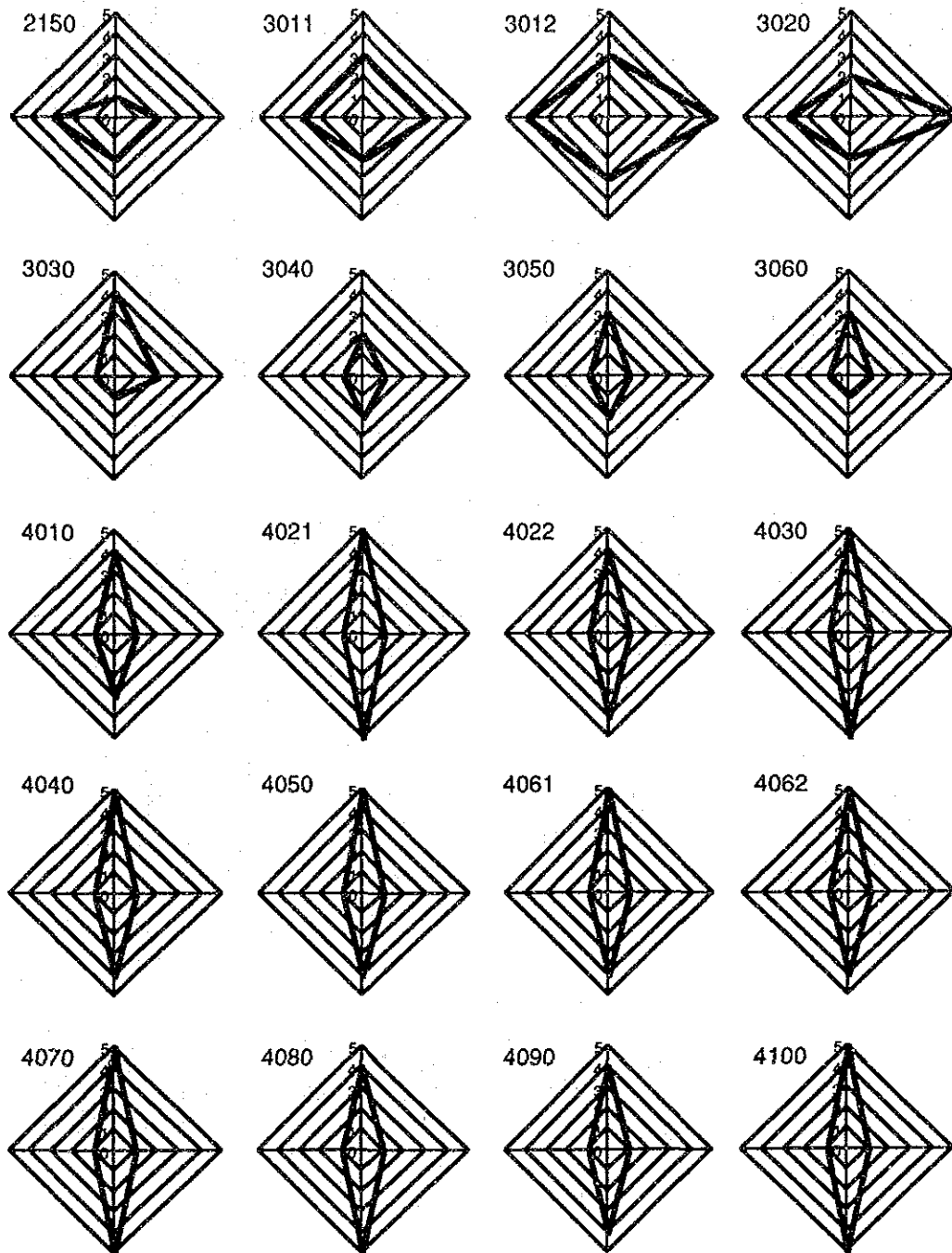


Class division

| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
|-------|-------------|----------------|--------------------------------------|---------------|
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 2.5 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (3/6)

MINISTRY OF PUBLIC WORKS
 FORMULATION OF
 IRRIGATION DEVELOPMENT PROGRAM
 JAPAN INTERNATIONAL COOPERATION AGENCY

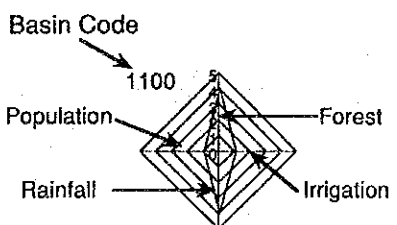
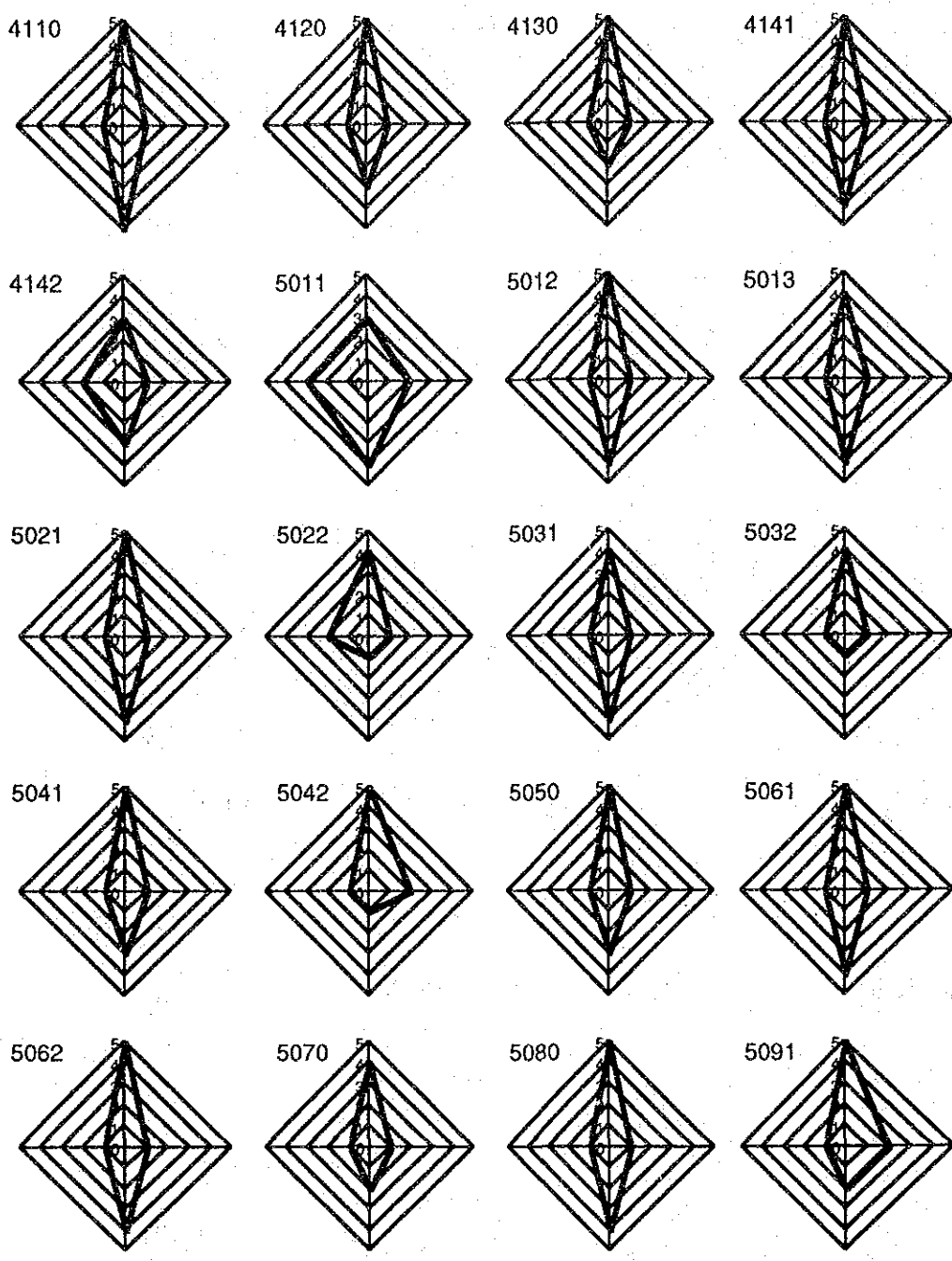


Class division

| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
|-------|-------------|----------------|--------------------------------------|---------------|
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 2.5 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (4/6)

MINISTRY OF PUBLIC WORKS
 FORMULATION OF
 IRRIGATION DEVELOPMENT PROGRAM
 JAPAN INTERNATIONAL COOPERATION AGENCY

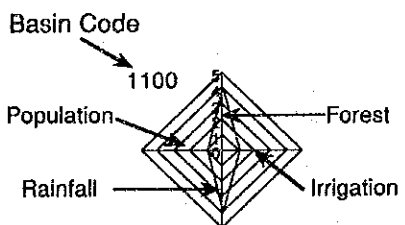
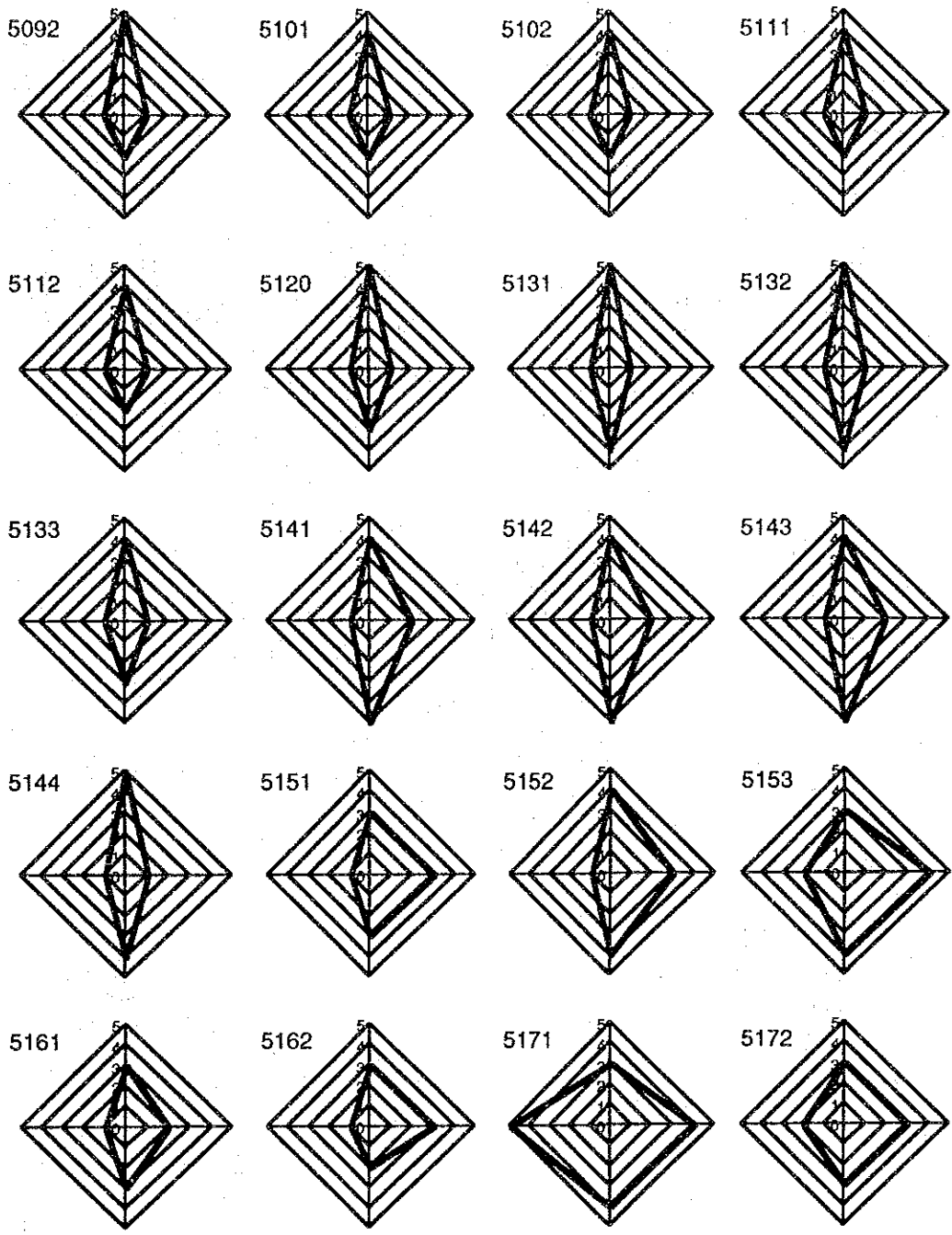


Class division

| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
|-------|-------------|----------------|--------------------------------------|---------------|
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 2.5 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (5/6)

MINISTRY OF PUBLIC WORKS
FORMULATION OF
IRRIGATION DEVELOPMENT PROGRAM
JAPAN INTERNATIONAL COOPERATION AGENCY



Class division

| Class | Forest (%) | Irrigation (%) | Population (person/km ²) | Rainfall (mm) |
|-------|-------------|----------------|--------------------------------------|---------------|
| 1 | 12.5 ~ 30.0 | 0 ~ 2.5 | 0 ~ 2.5 | < 1,500 |
| 2 | 30.0 ~ 46.0 | 2.5 ~ 5.0 | 25 ~ 75 | 1,500 ~ 2,000 |
| 3 | 46.0 ~ 63.0 | 5.0 ~ 10.0 | 75 ~ 150 | 2,000 ~ 2,500 |
| 4 | 63.0 ~ 80.0 | 10.0 ~ 15.0 | 150 ~ 250 | 2,500 ~ 3,000 |
| 5 | >80.0 | >15.0 | >250 | >3,000 |

Figure 2.12 Radar Chart of Present Basin Condition (6/6)

MINISTRY OF PUBLIC WORKS
 FORMULATION OF
 IRRIGATION DEVELOPMENT PROGRAM
 JAPAN INTERNATIONAL COOPERATION AGENCY

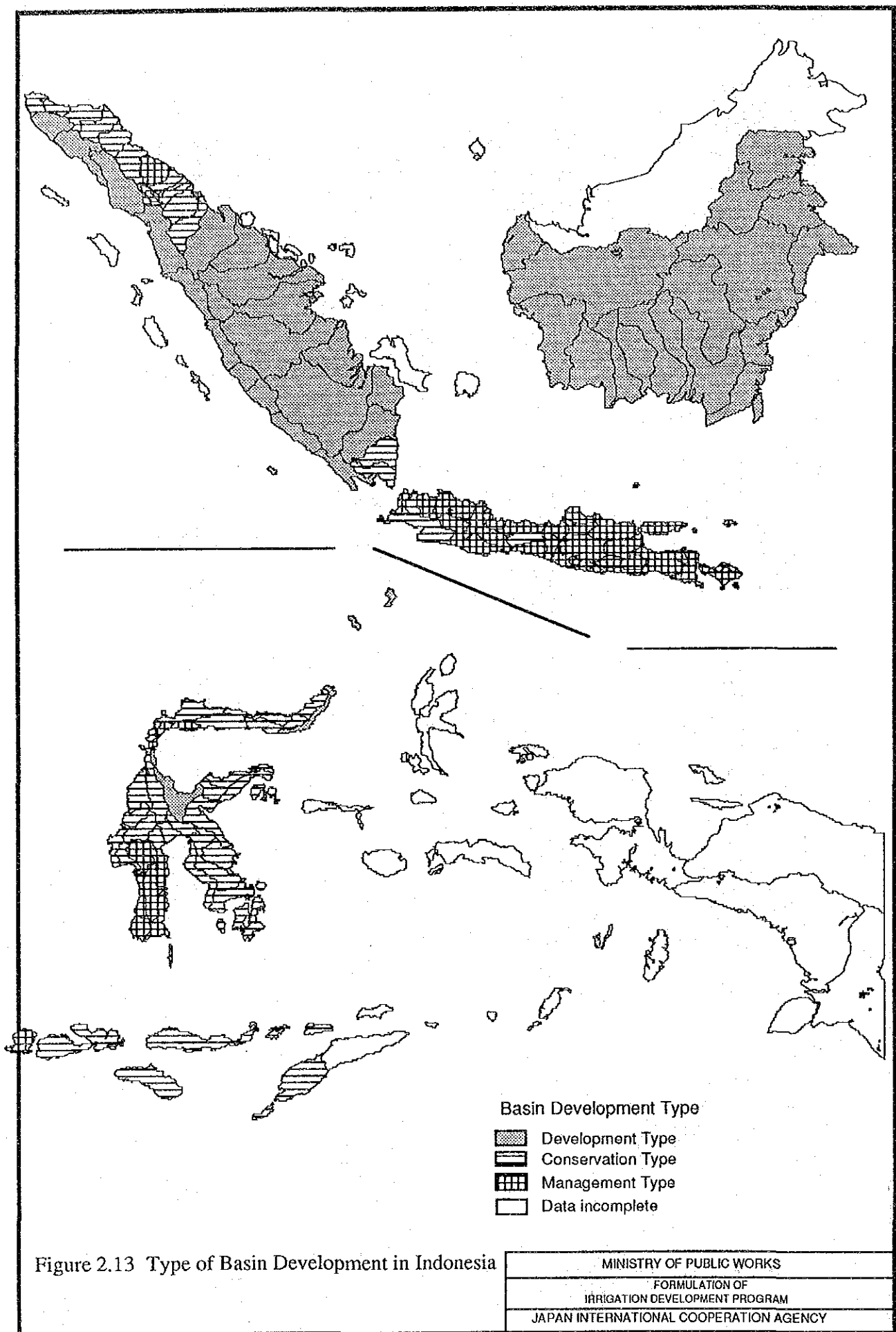


Figure 2.13 Type of Basin Development in Indonesia

| |
|---|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

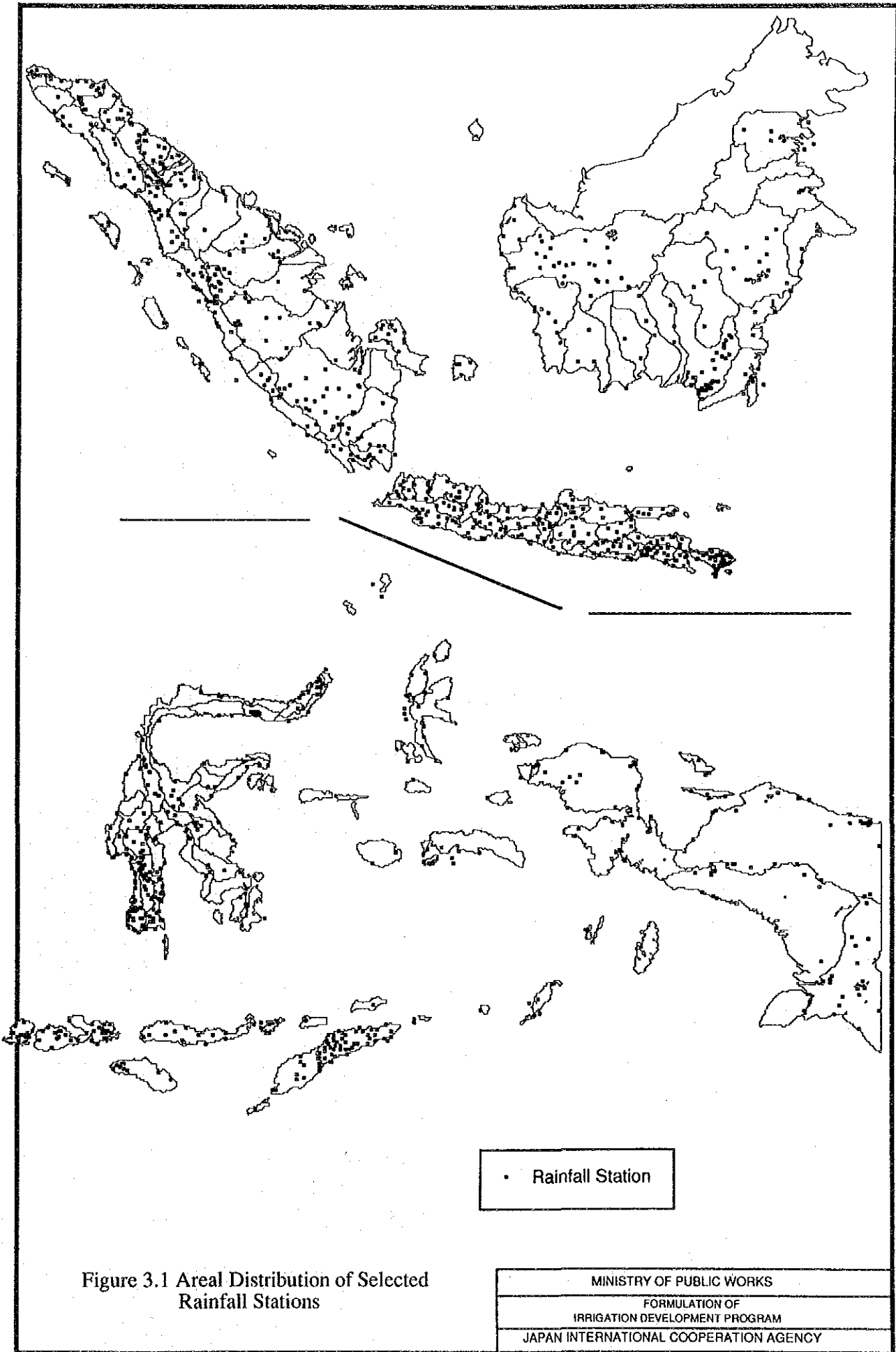


Figure 3.1 Areal Distribution of Selected Rainfall Stations

• Rainfall Station

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

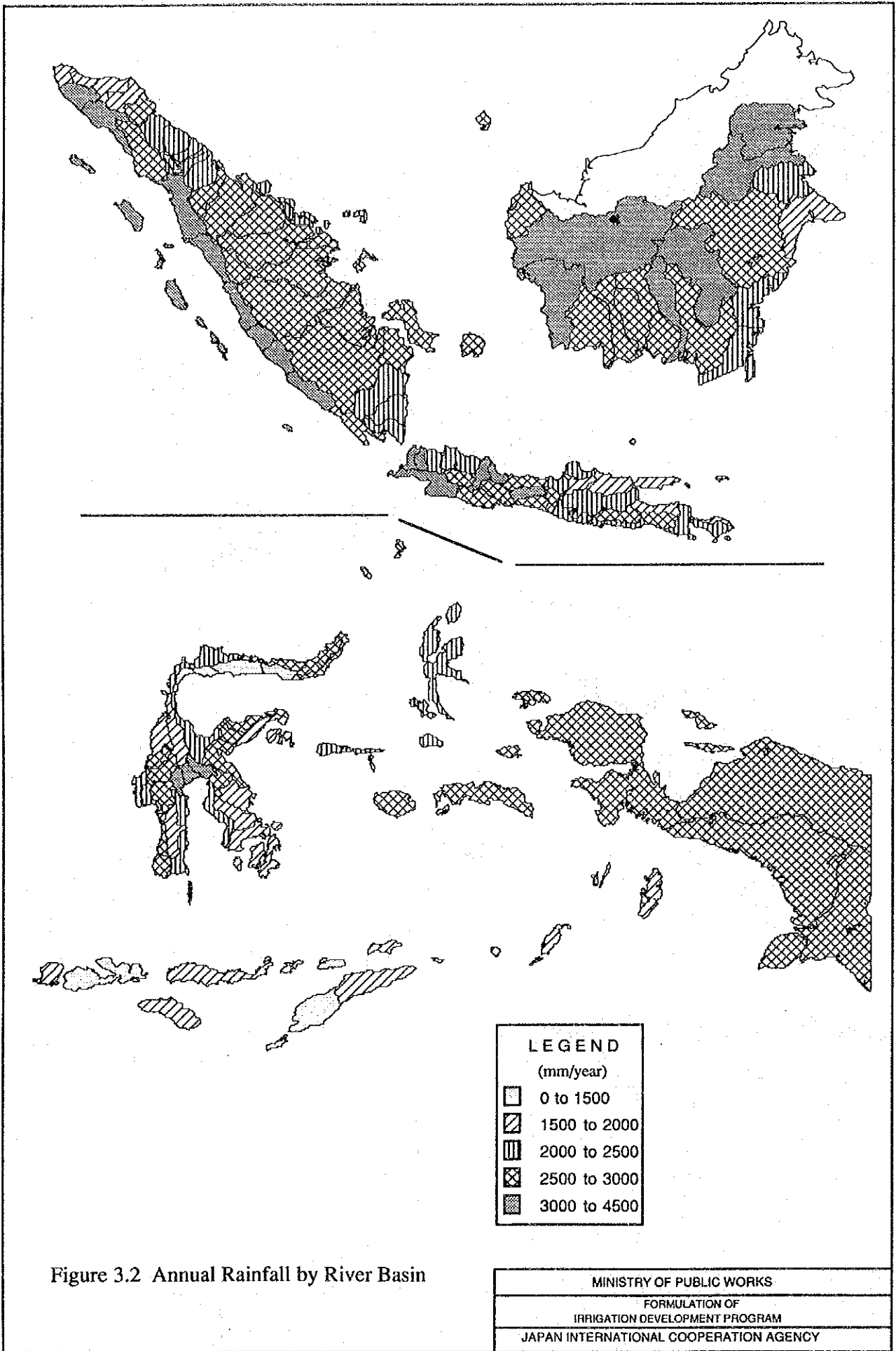
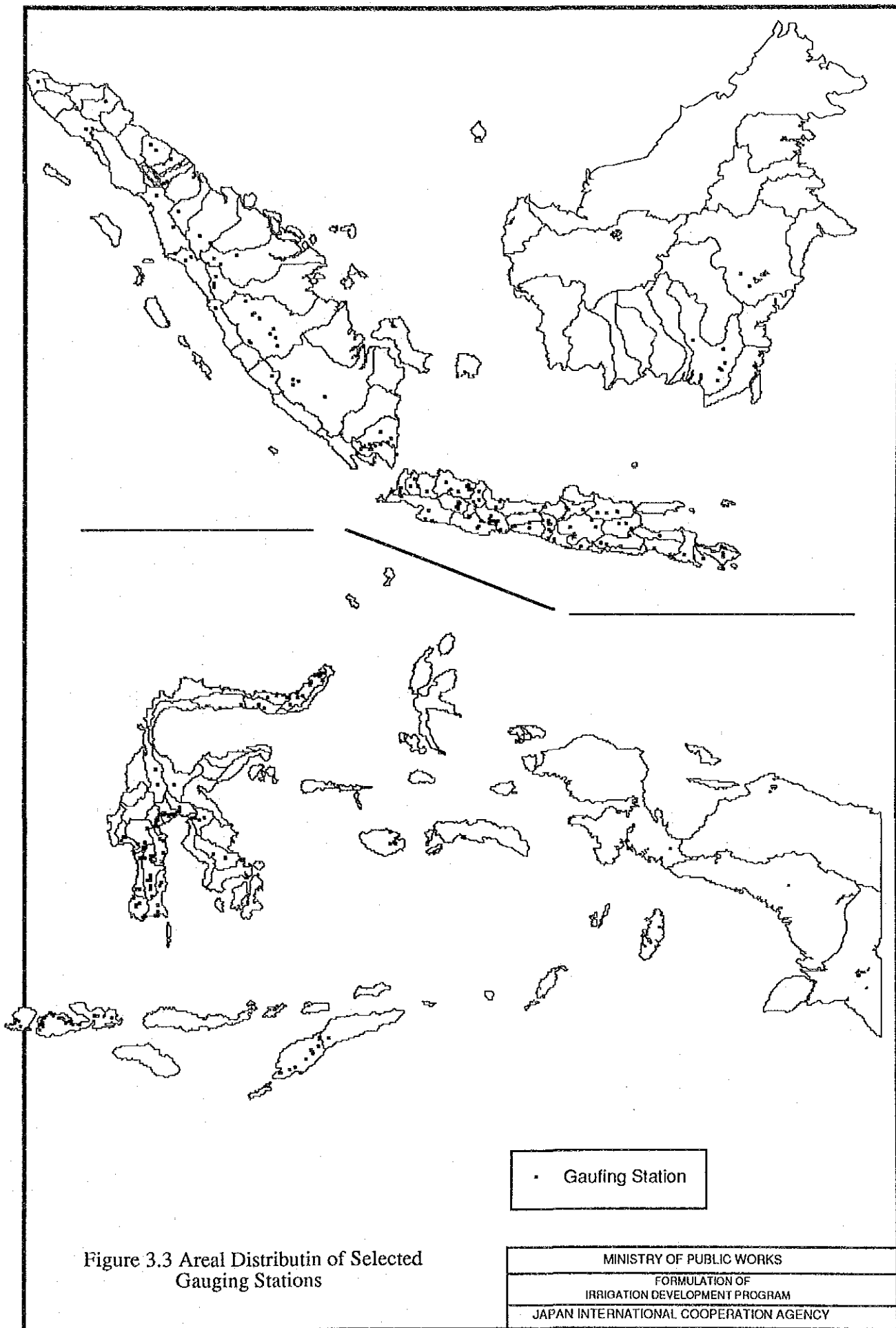


Figure 3.2 Annual Rainfall by River Basin



| Month | | | | | | | | | | | |
|-----------------|----------------------|---------|---------|---------|-----|-----------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | 11th | 12th |
| | | | | | | (30 days) | | (90 days) | | | |
| LP (30 days) | Paddy 1 (90 days) | | | | | LP | Paddy 2 (90 days) | | | | |
| | LP | Paddy 1 | | | | | LP | Paddy 2 (90 days) | | | |
| | | LP | Paddy 1 | | | | | LP | Paddy 2 (90 days) | | |
| Paddy 2 | | | LP | Paddy 1 | | | | | LP | Paddy 2 (90 days) | |
| Palawija | | | | | | | | | | LP | Paddy 2 (90 days) |
| | | | | | | | | | | | Palawija |
| | | | | | | | | | | | LP Paddy 2 (90 days) |
| | | | | | | | | | | | Palawija |
| | | | | | | | | | | | LP |
| | | | | | | | | | | | |

Notes: LP = Land Preparation
Paddy 1 is wet season crop (100 % density)
Paddy 2 + Palawija is dry season crop. (Variable density)

Figure 4.1 Typical Cropping Pattern

| |
|--|
| MINISTRY OF PUBLIC WORKS |
| FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM |
| JAPAN INTERNATIONAL COOPERATION AGENCY |

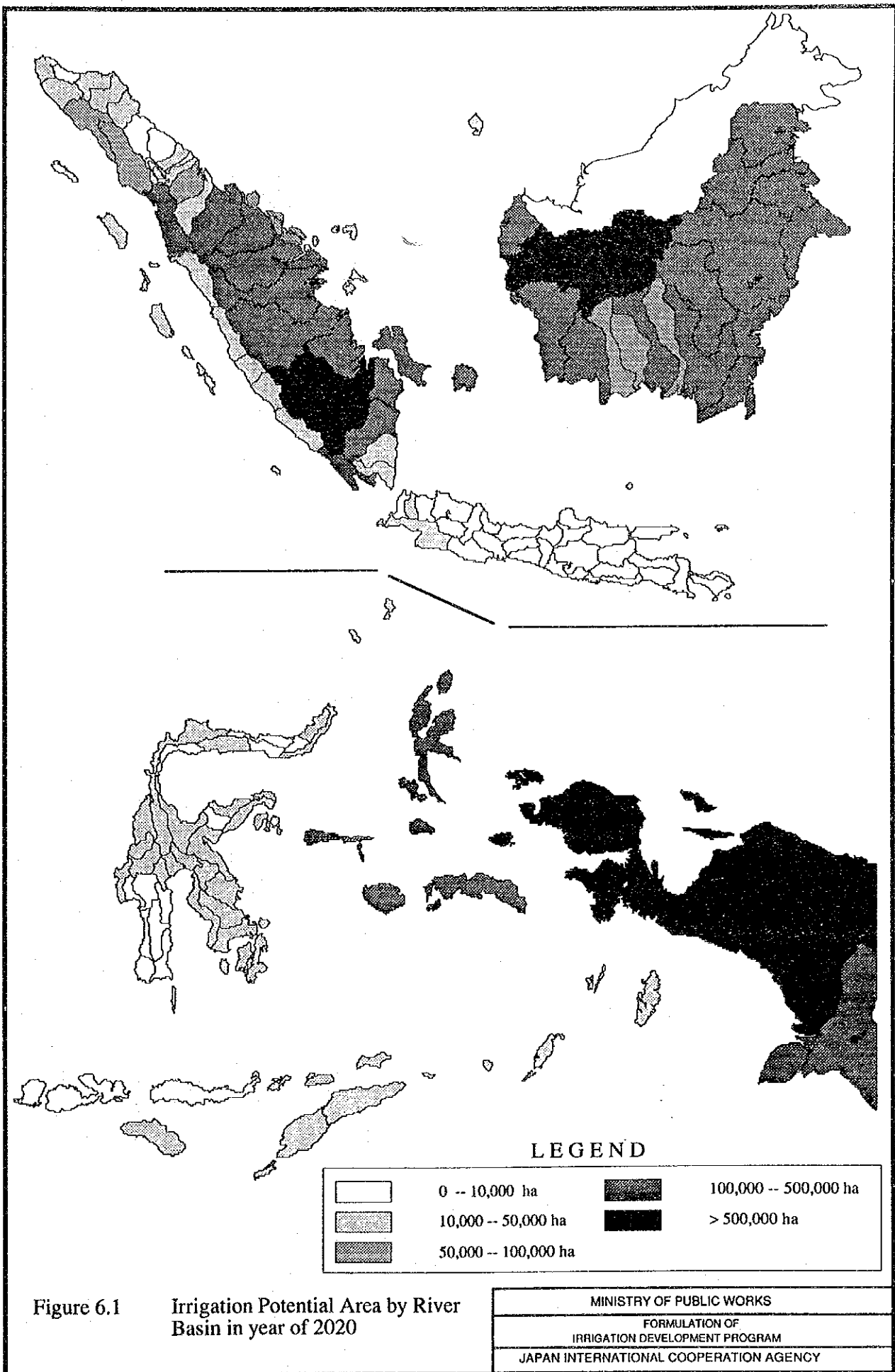


Figure 6.1 Irrigation Potential Area by River Basin in year of 2020

JICA