

6. MONTHLY RAINFALL RECORD

MONTHLY RAINFALL RECORD

STATION: INSIVUMEH

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 3 | 0 | 0 | 6 | 332 | 300 | 166 | 260 | 179 | 156 | 72 | 2 | 1477 |
| 1961 | 9 | 6 | 38 | 26 | 155 | 208 | 198 | 77 | 137 | 19 | 87 | 52 | 1012 |
| 1962 | 0 | 0 | 0 | 38 | 153 | 384 | 220 | 172 | 229 | 105 | 1 | 0 | 1303 |
| 1963 | 1 | 2 | 12 | 16 | 45 | 264 | 151 | 129 | 212 | 50 | 63 | 2 | 948 |
| 1964 | 0 | 0 | 0 | 61 | 61 | 207 | 345 | 246 | 239 | 49 | 21 | 8 | 1238 |
| 1965 | 14 | 10 | 0 | 3 | 105 | 307 | 61 | 195 | 245 | 101 | 4 | 3 | 1047 |
| 1966 | 9 | 27 | 38 | 54 | 182 | 271 | 173 | 248 | 121 | 121 | 4 | 0 | 1247 |
| 1967 | 2 | 0 | 9 | 46 | 70 | 152 | 95 | 146 | 134 | 88 | 84 | 58 | 885 |
| 1968 | 1 | 0 | 3 | 1 | 128 | 231 | 112 | 95 | 250 | 184 | 44 | 7 | 1055 |
| 1969 | 0 | 3 | 3 | 47 | 103 | 339 | 260 | 359 | 395 | 155 | 7 | 0 | 1671 |
| 1970 | 1 | 0 | 0 | 33 | 97 | 207 | 359 | 265 | 392 | 105 | 13 | 2 | 1474 |
| 1971 | 2 | 3 | 3 | 8 | 133 | 224 | 175 | 255 | 189 | 183 | 34 | 2 | 1210 |
| 1972 | 0 | 0 | 7 | 2 | 129 | 223 | 152 | 105 | 135 | 62 | 28 | 4 | 848 |
| 1973 | 1 | 0 | 0 | 12 | 115 | 262 | 187 | 289 | 374 | 133 | 25 | 1 | 1399 |
| 1974 | 12 | 0 | 37 | 0 | 166 | 245 | 101 | 163 | 292 | 40 | 3 | 0 | 1059 |
| 1975 | 3 | 0 | 0 | 15 | 59 | 222 | 89 | 139 | 384 | 162 | 15 | 3 | 1090 |
| 1976 | 0 | 0 | 0 | 81 | 136 | 339 | 133 | 97 | 114 | 177 | 11 | 0 | 1087 |
| 1977 | 0 | 0 | 0 | 14 | 98 | 183 | 51 | 191 | 98 | 93 | 78 | 7 | 813 |
| 1978 | 2 | 0 | 33 | 18 | 55 | 107 | 171 | 128 | 252 | 75 | 34 | 8 | 881 |
| 1979 | 0 | 0 | 4 | 67 | 86 | 153 | 361 | 213 | 279 | 45 | 1 | 3 | 1211 |
| 1980 | 19 | 2 | 0 | 4 | 121 | 159 | 104 | 176 | 193 | 106 | 9 | 3 | 895 |
| 1981 | 14 | 0 | 11 | 6 | 73 | 107 | 162 | 159 | 234 | 249 | 34 | 9 | 1057 |
| 1982 | 5 | 1 | 0 | 2 | 146 | 306 | 150 | 37 | 244 | 96 | 0 | 3 | 990 |
| 1983 | 1 | 64 | 44 | 21 | 50 | 307 | 114 | 93 | 260 | 66 | 70 | 15 | 1106 |
| 1984 | 0 | 1 | 7 | 12 | 152 | 211 | 228 | 82 | 309 | 78 | 2 | 1 | 1083 |
| 1985 | 1 | 13 | 4 | 1 | 165 | 146 | 272 | 172 | 194 | 88 | 10 | 2 | 1067 |
| 1986 | 4 | 5 | 0 | 15 | 104 | 175 | 142 | 171 | 246 | 120 | 8 | 0 | 989 |
| 1987 | 0 | 0 | 53 | 53 | 92 | 290 | 204 | 153 | 220 | 12 | 1 | 2 | 1079 |
| 1988 | 3 | 1 | 27 | 6 | 66 | 426 | 227 | 458 | 250 | 173 | 3 | 14 | 1655 |
| 1989 | 1 | 4 | 20 | 17 | 139 | 211 | 173 | 252 | 242 | 129 | 11 | 3 | 1202 |
| Av. | 4 | 5 | 12 | 23 | 117 | 239 | 178 | 184 | 235 | 107 | 26 | 7 | 1136 |

MONTHLY RAINFALL RECORD

STATION: SAN AGUSTIN LAS MINAS

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AGO | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 2 | 0 | 22 | 19 | 229 | 423 | 170 | 198 | 221 | 143 | 4 | 0 | 1431 |
| 1961 | 5 | 12 | 6 | 42 | 104 | 132 | 187 | 90 | 180 | 85 | 79 | 29 | 948 |
| 1962 | 0 | 0 | 0 | 40 | 155 | 412 | 269 | 180 | 221 | 106 | 19 | 0 | 1401 |
| 1963 | 1 | 2 | 2 | 7 | 30 | 250 | 243 | 185 | 185 | 157 | 60 | 0 | 1095 |
| 1964 | 0 | 0 | 0 | 40 | 85 | 214 | 344 | 244 | 266 | 44 | 14 | 8 | 1258 |
| 1965 | 0 | 22 | 0 | 14 | 159 | 198 | 75 | 145 | 263 | 70 | 6 | 3 | 954 |
| 1966 | 5 | 6 | 6 | 59 | 121 | 227 | 220 | 266 | 180 | 167 | 2 | 8 | 1265 |
| 1967 | 3 | 11 | 14 | 75 | 65 | 137 | 127 | 162 | 174 | 104 | 15 | 28 | 915 |
| 1968 | 0 | 0 | 0 | 1 | 141 | 260 | 101 | 103 | 226 | 186 | 33 | 7 | 1056 |
| 1969 | 0 | 2 | 8 | 76 | 91 | 311 | 311 | 307 | 276 | 108 | 6 | 1 | 1495 |
| 1970 | 22 | 0 | 0 | 53 | 98 | 217 | 330 | 350 | 300 | 79 | 31 | 0 | 1480 |
| 1971 | 0 | 11 | 8 | 21 | 145 | 235 | 247 | 282 | 235 | 149 | 33 | 2 | 1366 |
| 1972 | 7 | 0 | 21 | 2 | 162 | 277 | 170 | 135 | 145 | 51 | 33 | 1 | 1003 |
| 1973 | 0 | 0 | 0 | 6 | 136 | 248 | 154 | 353 | 354 | 144 | 23 | 6 | 1423 |
| 1974 | 11 | 0 | 35 | 0 | 218 | 310 | 145 | 65 | 248 | 67 | 1 | 0 | 1099 |
| 1975 | 3 | 1 | 1 | 8 | 86 | 160 | 149 | 243 | 209 | 137 | 3 | 3 | 1001 |
| 1976 | 0 | 0 | 1 | 60 | 74 | 372 | 99 | 131 | 186 | 136 | 14 | 0 | 1073 |
| 1977 | 0 | 0 | 0 | 36 | 36 | 209 | 35 | 248 | 191 | 56 | 79 | 5 | 893 |
| 1978 | 1 | 0 | 52 | 52 | 165 | 164 | 232 | 156 | 240 | 90 | 1 | 2 | 1156 |
| 1979 | 2 | 1 | 2 | 66 | 86 | 173 | 171 | 230 | 208 | 68 | 0 | 8 | 1014 |
| 1980 | 29 | 1 | 0 | 9 | 68 | 233 | 193 | 230 | 226 | 68 | 24 | 0 | 1079 |
| 1981 | 8 | 2 | 32 | 10 | 116 | 189 | 301 | 214 | 240 | 259 | 0 | 2 | 1373 |
| 1982 | 7 | 1 | 4 | 13 | 199 | 332 | 119 | 83 | 357 | 83 | 6 | 1 | 1204 |
| 1983 | 1 | 66 | 38 | 1 | 57 | 333 | 202 | 173 | 210 | 60 | 47 | 15 | 1202 |
| 1984 | 0 | 4 | 31 | 20 | 145 | 245 | 274 | 157 | 238 | 85 | 1 | 0 | 1201 |
| 1985 | 1 | 3 | 8 | 6 | 192 | 226 | 258 | 305 | 223 | 92 | 34 | 2 | 1351 |
| 1986 | 1 | 0 | 1 | 11 | 108 | 169 | 131 | 163 | 142 | 81 | 14 | 4 | 823 |
| 1987 | 0 | 1 | 39 | 61 | 34 | 362 | 204 | 183 | 194 | 5 | 0 | 20 | 1104 |
| 1988 | 2 | 1 | 5 | 19 | 74 | 572 | 275 | 369 | 244 | 198 | 38 | 1 | 1771 |
| 1989 | 0 | 54 | 17 | 27 | - | 215 | 238 | - | - | - | - | - | - |
| Av. | 4 | 7 | 12 | 28 | 116 | 260 | 199 | 205 | 227 | 106 | 21 | 5 | 1187 |

MONTHLY RAINFALL RECORD

STATION: EXPERIMENTAL INCAP

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1962 | 6 | 5 | 0 | 21 | 161 | 270 | 176 | 315 | 294 | 111 | 11 | 0 | 1371 |
| 1963 | 0 | 7 | 0 | 10 | 12 | 178 | 219 | 122 | 207 | 33 | 55 | 0 | 843 |
| 1964 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - |
| 1967 | - | - | - | 82 | 23 | 185 | 203 | 100 | 215 | 111 | 4 | 0 | - |
| 1968 | 25 | 5 | 2 | 13 | 103 | 300 | 141 | 130 | 244 | 140 | 24 | 9 | 1135 |
| 1969 | 0 | 10 | 10 | 61 | 160 | 323 | 248 | 369 | 464 | 173 | 14 | 0 | 1829 |
| 1970 | 2 | 1 | 0 | 34 | 81 | 221 | 447 | 249 | 216 | 163 | 37 | 5 | 1454 |
| 1971 | 5 | 6 | 2 | 31 | 78 | 191 | 153 | 366 | 231 | 245 | 40 | 18 | 1363 |
| 1972 | 4 | 11 | 4 | 15 | 87 | 183 | 199 | 149 | 54 | 93 | 34 | 0 | 830 |
| 1973 | 0 | 0 | 0 | 3 | 113 | 205 | 185 | 335 | 165 | 160 | 62 | 0 | 1226 |
| 1974 | 0 | 0 | 26 | 4 | 136 | 329 | 114 | 140 | 220 | 51 | 0 | 0 | 1018 |
| 1975 | 0 | 6 | 12 | 5 | 113 | 155 | 97 | 193 | 239 | 222 | 0 | 2 | 1043 |
| 1976 | 0 | 0 | 0 | 99 | 116 | 311 | 69 | 96 | 166 | 161 | 16 | 0 | 1032 |
| 1977 | 0 | 0 | 0 | 55 | 86 | 241 | 81 | 184 | 227 | 50 | 33 | 9 | 964 |
| 1978 | 0 | 0 | 11 | 10 | 106 | 183 | 337 | 184 | 244 | 31 | 6 | 0 | 1110 |
| 1979 | 0 | 8 | 11 | 46 | 155 | 276 | 302 | 187 | 252 | 75 | 0 | 24 | 1334 |
| 1980 | 19 | 0 | 0 | 0 | 160 | 178 | 221 | 213 | 231 | 86 | 0 | 0 | 1106 |
| Av. | 4 | 4 | 5 | 30 | 105 | 233 | 199 | 208 | 229 | 119 | 21 | 4 | 1177 |

STATION: ANTIGUA E.E

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1980 | 19 | 0 | 0 | 7 | 101 | 200 | 107 | 124 | 215 | 80 | 0 | 0 | 853 |
| 1981 | 0 | 0 | 9 | 8 | 64 | 180 | 157 | 200 | 272 | 226 | 0 | 0 | 1116 |
| 1982 | 0 | 0 | 0 | 5 | 137 | 326 | 114 | 47 | 358 | 66 | 0 | 0 | 1053 |
| 1983 | 0 | 56 | 56 | 25 | 3 | 448 | 106 | 99 | 217 | 32 | 18 | 2 | 1062 |
| 1984 | 0 | 0 | 7 | 17 | 226 | 162 | 226 | 130 | 234 | 47 | 0 | 0 | 1049 |
| 1985 | 0 | 0 | 0 | 9 | 144 | 173 | 190 | 271 | 229 | 50 | 5 | 0 | 1071 |
| 1986 | 0 | 0 | 0 | 0 | 156 | 119 | 37 | 105 | 125 | 74 | 0 | 0 | 616 |
| 1987 | 0 | 0 | 130 | 0 | 95 | 262 | 178 | 67 | 104 | 0 | 0 | 0 | 836 |
| 1988 | 0 | 0 | 0 | 0 | 106 | 279 | 170 | 385 | 232 | 183 | 0 | 0 | 1355 |
| 1989 | 0 | 0 | 0 | 0 | 172 | 167 | 284 | 217 | 340 | 75 | 42 | 0 | 1297 |
| Av. | 2 | 6 | 20 | 7 | 120 | 232 | 157 | 165 | 233 | 83 | 7 | 0 | 1031 |

MONTHLY RAINFALL RECORD

STATION: VILLA NUEVA

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 0 | 0 | 27 | 204 | 244 | 167 | 199 | 278 | 194 | 0 | 0 | 1313 |
| 1961 | 0 | 0 | 17 | 46 | 92 | 195 | 177 | 52 | 135 | 60 | 67 | 18 | 859 |
| 1962 | 0 | 0 | 0 | 34 | 176 | 565 | 220 | 106 | 538 | 119 | 4 | 0 | 1762 |
| 1963 | 0 | 0 | 1 | 0 | 43 | 228 | 264 | 46 | 184 | 22 | 10 | 0 | 798 |
| 1964 | 0 | 0 | 0 | 25 | 37 | 272 | 326 | 305 | 365 | 19 | 0 | 4 | 1353 |
| 1965 | 0 | 0 | 0 | 14 | 66 | 318 | 123 | 216 | 253 | 87 | 0 | 0 | 1077 |
| 1966 | 0 | 0 | 15 | 37 | 160 | 307 | 258 | 327 | 106 | 121 | 0 | 0 | 1331 |
| 1967 | 0 | 26 | 0 | 1 | 120 | 151 | 134 | 122 | 101 | 105 | 5 | 0 | 765 |
| 1968 | 0 | 0 | 0 | 0 | 91 | 145 | 144 | 167 | 312 | 222 | 49 | 0 | 1130 |
| 1969 | 0 | 0 | 0 | 95 | 143 | 351 | 269 | 372 | 475 | 158 | 0 | 0 | 1863 |
| 1970 | 0 | 0 | 0 | 23 | 232 | 205 | 278 | 245 | 322 | 50 | 0 | 0 | 1355 |
| 1971 | 0 | 0 | 0 | 3 | 128 | 298 | 90 | 90 | 233 | 68 | 36 | 0 | 946 |
| 1972 | 0 | 0 | 5 | 0 | 42 | 90 | - | - | - | - | - | - | - |
| Av. | 0 | 2 | 3 | 23 | 118 | 259 | 204 | 187 | 275 | 102 | 14 | 2 | 1213 |

MONTHLY RAINFALL RECORD

STATION: AMATITLAN E E

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 0 | 0 | 50 | 156 | 309 | 111 | 170 | 196 | 161 | 0 | 0 | 1153 |
| 1961 | 0 | 0 | 5 | 9 | 56 | 144 | 227 | 78 | 177 | 39 | 93 | 5 | 833 |
| 1962 | 0 | 0 | 0 | 34 | 125 | 361 | 192 | 203 | 269 | 149 | 0 | 0 | 1333 |
| 1963 | 0 | 4 | 3 | 7 | 41 | 237 | 103 | 83 | 164 | 19 | 10 | 0 | 670 |
| 1964 | 0 | 0 | 0 | 7 | 87 | 342 | 378 | 229 | 368 | 77 | 53 | 1 | 1542 |
| 1965 | 0 | 0 | 0 | 1 | 47 | 271 | 77 | 216 | 223 | 110 | 8 | 0 | 953 |
| 1966 | 0 | 0 | 7 | 80 | 120 | 244 | 189 | 221 | 145 | 54 | 1 | 0 | 1061 |
| 1967 | 0 | 4 | 6 | 5 | 61 | 167 | 143 | 153 | 106 | 58 | 1 | 0 | 704 |
| 1968 | 0 | 0 | 0 | 0 | 70 | 275 | 78 | 125 | 181 | 168 | 15 | 0 | 912 |
| 1969 | 0 | 0 | 0 | 61 | 151 | 307 | 232 | 262 | 404 | 151 | 2 | 0 | 1570 |
| 1970 | 0 | 0 | 0 | 15 | 94 | 143 | 238 | 201 | 350 | 89 | 1 | 0 | 1131 |
| 1971 | 0 | 0 | 0 | 12 | 122 | 310 | 126 | 126 | 250 | 140 | 20 | 0 | 1106 |
| 1972 | 11 | 0 | 6 | 0 | 83 | 179 | 118 | 158 | 126 | 75 | 26 | 0 | 782 |
| 1973 | 0 | 0 | 0 | 35 | 235 | 300 | 167 | 374 | 297 | 85 | 25 | 0 | 1517 |
| 1974 | 4 | 0 | 5 | 0 | 337 | 378 | 155 | 146 | 254 | 80 | 0 | 0 | 1358 |
| 1975 | 0 | 0 | 0 | 8 | 87 | 62 | 293 | 295 | 158 | 121 | 0 | 0 | 1023 |
| 1976 | 0 | 0 | 0 | 28 | 36 | 286 | 111 | 80 | 236 | 37 | 35 | 0 | 849 |
| 1977 | 0 | 0 | 0 | 20 | 40 | 178 | 63 | 179 | 150 | 29 | 29 | 0 | 688 |
| 1978 | 0 | 0 | 49 | 15 | 80 | 187 | 266 | 126 | 367 | 110 | 0 | 0 | 1200 |
| 1979 | 0 | 0 | 0 | 89 | 123 | 212 | 202 | 191 | 261 | 12 | 0 | 0 | 1090 |
| 1980 | 0 | 0 | 0 | 0 | 35 | 148 | 90 | 213 | 213 | 19 | 0 | 0 | 718 |
| 1981 | 28 | 0 | 25 | 10 | 70 | 171 | 226 | 297 | 220 | 265 | 0 | 3 | 1215 |
| 1982 | 19 | 0 | 0 | 13 | 142 | 270 | 169 | 24 | 312 | 104 | 10 | 0 | 1063 |
| 1983 | 0 | 100 | 62 | 23 | 2 | 344 | 120 | 106 | 274 | 90 | 7 | 8 | 1136 |
| 1984 | 0 | 0 | 40 | 35 | 182 | 158 | 249 | 172 | 222 | 72 | 0 | 0 | 1130 |
| 1985 | 0 | 0 | 0 | 2 | 130 | 252 | 244 | 403 | 208 | 116 | 30 | 0 | 1385 |
| 1986 | 0 | 0 | 0 | 39 | 455 | 199 | 89 | 284 | 116 | 120 | 0 | 0 | 1302 |
| 1987 | 0 | 0 | 103 | 45 | 49 | 215 | 241 | 221 | 147 | 15 | 0 | 0 | 1036 |
| 1988 | 0 | 0 | 0 | 1 | 86 | 312 | 144 | 405 | 229 | 29 | 5 | 0 | 1211 |
| 1989 | 0 | 0 | 0 | 0 | 109 | 190 | 206 | 301 | 383 | 167 | 3 | 0 | 1359 |
| Av. | 2 | 4 | 10 | 21 | 114 | 238 | 175 | 201 | 234 | 92 | 12 | 1 | 1101 |

MONTHLY RAINFALL RECORD

STATION: ANTIGUA

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 0 | 0 | 5 | 250 | 303 | 130 | 187 | 139 | 191 | 36 | 0 | 1241 |
| 1961 | 0 | 1 | 9 | 40 | 35 | 124 | 144 | 35 | 87 | 59 | 64 | 16 | 614 |
| 1962 | 0 | 0 | 0 | 28 | 100 | 301 | 145 | 207 | 196 | 158 | 0 | 0 | 1135 |
| 1963 | 0 | 3 | 27 | 5 | 66 | 142 | 248 | 48 | 173 | 12 | 8 | 0 | 732 |
| 1964 | 0 | 0 | 0 | 18 | 107 | 334 | 260 | 137 | 239 | 21 | 13 | 0 | 1129 |
| 1965 | 0 | 0 | 0 | 0 | 75 | 326 | 32 | 100 | 199 | 67 | 4 | 0 | 803 |
| 1966 | 0 | 0 | 0 | 0 | 203 | 286 | 253 | 253 | 119 | 103 | 0 | 0 | 1217 |
| 1967 | 0 | 0 | 0 | 17 | 46 | 48 | 94 | 48 | 122 | 17 | 0 | 0 | 392 |
| 1968 | 0 | 0 | 0 | 0 | 48 | 331 | 105 | 64 | 182 | 200 | 38 | 0 | 968 |
| 1969 | 0 | 0 | 0 | 86 | 271 | 174 | 139 | 254 | 455 | 157 | 0 | 0 | 1536 |
| 1970 | 0 | 0 | 0 | 6 | 102 | 104 | 324 | 124 | 221 | 56 | 0 | 0 | 937 |
| 1971 | 0 | 0 | 0 | 23 | 123 | 264 | 123 | 204 | 226 | 160 | 29 | 5 | 1157 |
| 1972 | 0 | 0 | 28 | 0 | 60 | 177 | 109 | 118 | 31 | 46 | 18 | 0 | 587 |
| 1973 | 0 | 0 | 0 | 0 | 119 | 207 | 120 | 353 | 244 | 147 | 32 | 0 | 1222 |
| 1974 | 40 | 0 | 30 | 2 | 191 | 243 | 90 | 86 | 320 | 19 | 0 | 0 | 1021 |
| 1975 | 0 | 0 | 8 | 4 | 79 | 139 | 138 | 149 | 197 | 141 | 36 | 2 | 900 |
| 1976 | 0 | 0 | 1 | 62 | 55 | 337 | 51 | 104 | 147 | 124 | 21 | 0 | 902 |
| 1977 | 0 | 0 | 2 | 27 | 76 | 182 | 79 | 128 | 181 | 53 | 20 | 0 | 748 |
| 1978 | 0 | 0 | 1 | 0 | 27 | 122 | 229 | 75 | 356 | 37 | 0 | 4 | 1189 |
| Av. | 2 | 0 | 6 | 17 | 107 | 218 | 148 | 141 | 202 | 93 | 17 | 1 | 970 |

MONTHLY RAINFALL RECORD

STATION: EL POTRERO

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 3 | 0 | 10 | 203 | 264 | 86 | 159 | 156 | 156 | 6 | 0 | 1042 |
| 1961 | 3 | 0 | 13 | 13 | 32 | 111 | 127 | 57 | 143 | 70 | 111 | 16 | 696 |
| 1962 | 0 | 0 | 0 | 25 | 98 | 333 | 124 | 181 | 137 | 108 | 3 | 0 | 1010 |
| 1963 | 0 | 48 | 6 | 6 | 76 | 175 | 238 | 57 | 257 | 6 | 111 | 0 | 981 |
| 1964 | 0 | 0 | 0 | 6 | 35 | 286 | 299 | 162 | | 343 | 23 | 3 | 1182 |
| 1965 | 3 | 6 | 0 | 6 | 51 | 289 | 41 | 146 | 191 | 86 | 0 | 0 | 819 |
| 1966 | 0 | 0 | 10 | 54 | 137 | 260 | 213 | 238 | 98 | 57 | 0 | 0 | 1067 |
| 1967 | 3 | 3 | 3 | 19 | 45 | 124 | 102 | 92 | 146 | 57 | 0 | 16 | 610 |
| 1968 | 0 | 0 | 0 | 0 | 60 | 276 | 83 | 86 | 137 | 197 | 16 | 0 | 854 |
| 1969 | 0 | 0 | 0 | 83 | 140 | 203 | 143 | 235 | 406 | 127 | 0 | 0 | 1337 |
| 1970 | 0 | 0 | 0 | 10 | 98 | 105 | 276 | 159 | 268 | 35 | 16 | 0 | 965 |
| 1971 | 0 | 0 | 0 | 38 | 95 | 172 | 114 | 194 | 270 | 67 | 38 | 0 | 988 |
| 1972 | 0 | 13 | 6 | 0 | 67 | 216 | 73 | 98 | 25 | 41 | 25 | 3 | 568 |
| 1973 | 0 | 0 | 0 | 35 | 169 | 124 | 86 | 251 | 203 | 198 | 19 | 0 | 994 |
| 1974 | 16 | 10 | 16 | 0 | 115 | 257 | 60 | 13 | 197 | 19 | 0 | 0 | 703 |
| 1975 | 38 | 3 | 6 | 10 | 51 | 48 | 108 | 137 | 171 | 134 | 16 | 0 | 721 |
| 1976 | 0 | 29 | 0 | 48 | 73 | 273 | 42 | 54 | 92 | 76 | 16 | 0 | 702 |
| 1977 | 0 | 0 | 0 | 70 | 29 | 181 | 32 | 114 | 118 | 32 | 29 | 0 | 604 |
| 1978 | 0 | 0 | 54 | 3 | 45 | 188 | 184 | 70 | 294 | 86 | 0 | 0 | 924 |
| 1979 | 0 | 0 | 19 | 13 | 57 | 245 | 140 | 175 | 286 | 61 | 0 | 0 | 995 |
| 1980 | 35 | 0 | 0 | 0 | 105 | 172 | 102 | 108 | 203 | 32 | 0 | 0 | 757 |
| 1981 | 0 | 0 | 10 | 35 | 60 | 241 | 197 | 152 | 175 | 219 | 0 | 0 | 1089 |
| 1982 | 0 | 0 | 0 | 0 | 146 | 264 | 134 | 156 | 279 | 86 | 0 | 0 | 1065 |
| 1983 | 0 | 95 | 51 | 38 | 41 | 152 | 86 | 137 | 184 | 35 | 29 | 10 | 857 |
| 1984 | 0 | 3 | 13 | 55 | 206 | 124 | 162 | 127 | 222 | 51 | 0 | 0 | 963 |
| 1985 | 0 | 0 | 0 | 0 | 89 | 200 | 206 | 203 | 165 | 92 | 13 | 0 | 969 |
| 1986 | 0 | 0 | 0 | 32 | 159 | 137 | 60 | 83 | 121 | 111 | 0 | 0 | 702 |
| 1987 | 0 | 0 | 172 | 6 | 51 | 178 | 165 | 45 | 108 | 13 | - | - | - |
| Av. | 4 | 8 | 14 | 22 | 90 | 200 | 131 | 132 | 187 | 93 | 17 | 2 | 895 |

MONTHLY RAINFALL RECORD

STATION: SAN PEDRO LA LAGUNA

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 9 | 6 | 39 | 210 | 242 | 106 | 159 | 207 | 215 | 12 | 8 | 1214 |
| 1961 | 0 | 21 | 49 | 9 | 65 | 210 | 160 | 89 | 275 | 38 | 212 | 8 | 1133 |
| 1962 | 0 | 0 | 0 | 41 | 128 | 410 | 60 | 125 | 339 | 67 | 17 | 0 | 1185 |
| 1963 | 0 | 10 | 0 | 16 | 74 | 142 | 158 | 31 | 347 | 53 | 132 | 0 | 961 |
| 1964 | 0 | 0 | 3 | 4 | 87 | 262 | 193 | 173 | 280 | 135 | 12 | 9 | 1157 |
| 1965 | 5 | 0 | 0 | 15 | 98 | 306 | 74 | 107 | 211 | 176 | 16 | 16 | 1024 |
| 1966 | 0 | 6 | 21 | 75 | 195 | 368 | 221 | 149 | 245 | 232 | 0 | 0 | 1512 |
| 1967 | 0 | 0 | 5 | 39 | 0 | 195 | 120 | 132 | 202 | 98 | 0 | 0 | 792 |
| 1968 | 0 | 16 | 0 | 0 | 418 | 335 | 64 | 31 | 238 | 54 | 0 | 12 | 1168 |
| 1969 | 0 | 20 | 16 | 32 | 157 | 465 | 359 | 472 | 408 | 270 | 14 | 0 | 2212 |
| 1972 | 0 | 4 | 6 | 6 | 86 | 307 | 71 | 40 | 97 | 78 | 15 | 0 | 710 |
| 1973 | 0 | 0 | 0 | 36 | 164 | 268 | 103 | 288 | 247 | 277 | 17 | 26 | 1425 |
| 1974 | 2 | 0 | 17 | 23 | 183 | 370 | 103 | 90 | 375 | 33 | 0 | 0 | 1195 |
| 1975 | 0 | 0 | 0 | 18 | 51 | 118 | 114 | 169 | 215 | 147 | 34 | 0 | 866 |
| 1976 | 0 | 0 | 0 | 41 | 31 | 394 | 54 | 69 | 56 | 175 | 0 | 0 | 820 |
| 1977 | 0 | 0 | 0 | 23 | 31 | 71 | 6 | 64 | 80 | 14 | 10 | 0 | 300 |
| 1978 | 0 | 11 | 15 | 16 | 63 | 72 | 108 | 45 | 112 | 44 | 0 | 0 | 486 |
| 1979 | 0 | 0 | 34 | 77 | 139 | 189 | 26 | 198 | 447 | 84 | 3 | 0 | 1198 |
| 1980 | 5 | 0 | 0 | 52 | 133 | 191 | 134 | 129 | 161 | 70 | 11 | 16 | 900 |
| 1981 | 4 | 0 | 76 | 18 | 89 | 381 | 165 | 164 | 198 | 165 | 14 | 6 | 1278 |
| 1982 | 0 | 14 | 0 | 0 | 282 | 257 | 84 | 24 | 258 | 141 | 11 | 0 | 1072 |
| 1983 | 0 | 86 | 61 | 59 | 29 | 245 | 87 | 116 | 136 | 90 | 31 | 0 | 939 |
| 1984 | 2 | 3 | 19 | 24 | 168 | 216 | 208 | 161 | 22 | 45 | 0 | 0 | 1067 |
| 1985 | 0 | 0 | 1 | 10 | 110 | 184 | 130 | 185 | 176 | 106 | 92 | 4 | 999 |
| 1986 | 0 | 3 | 0 | 32 | 162 | 102 | 92 | 180 | 183 | 153 | 19 | 0 | 925 |
| 1987 | 0 | 0 | 173 | 22 | 160 | 250 | 145 | 147 | 198 | 50 | 37 | 2 | 1185 |
| 1988 | 1 | 2 | 2 | 29 | 134 | 383 | 83 | 387 | 284 | 108 | 43 | 5 | 1461 |
| 1989 | 0 | 0 | 21 | 60 | 111 | 145 | 113 | 77 | 356 | 194 | - | - | - |
| Av. | 1 | 7 | 19 | 29 | 127 | 253 | 119 | 143 | 227 | 118 | 28 | 4 | 1081 |

STATION: CULPAN

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1980 | 13 | 15 | 81 | 243 | 333 | 296 | 525 | 563 | 854 | 568 | 42 | 34 | 3567 |
| 1981 | 62 | 65 | 320 | 126 | 438 | 662 | 576 | 558 | 575 | 453 | 116 | 108 | 4059 |
| 1982 | 32 | 200 | 12 | 120 | 243 | 364 | 458 | 339 | 636 | 300 | 119 | 19 | 2842 |
| 1983 | 0 | 66 | 41 | 147 | 121 | 527 | 695 | 578 | 623 | 408 | 375 | 17 | 3598 |
| 1984 | 25 | 113 | 96 | 77 | 554 | 662 | 614 | 567 | 824 | 304 | 63 | 6 | 3905 |
| 1985 | 17 | 12 | 22 | 137 | 451 | 454 | 499 | 378 | 554 | 360 | 148 | 13 | 3045 |
| 1986 | 32 | 40 | 10 | 119 | 468 | 489 | 300 | 495 | 383 | 494 | 148 | 14 | 2992 |
| 1987 | 1 | 5 | 134 | 229 | 155 | 535 | 591 | 607 | 473 | 293 | 100 | 52 | 3175 |
| 1988 | 49 | 59 | 47 | 159 | 270 | 695 | 475 | 761 | 653 | 285 | 144 | 25 | 3622 |
| Av. | 26 | 64 | 85 | 151 | 337 | 520 | 526 | 538 | 619 | 385 | 139 | 32 | 3423 |

MONTHLY RAINFALL RECORD

STATION: LA SOLEDAD

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1968 | 9 | 10 | 0 | 9 | 125 | 294 | 211 | 121 | 339 | 300 | 185 | 44 | 1655 |
| 1969 | 2 | 7 | 15 | 149 | 259 | 317 | 302 | 349 | 377 | 121 | 15 | 5 | 1918 |
| 1970 | 23 | 16 | 0 | 57 | 131 | 207 | 454 | 346 | 322 | 121 | 29 | 1 | 1707 |
| 1971 | 0 | 28 | 3 | 42 | 84 | 252 | 258 | 275 | 321 | 350 | 57 | 4 | 1974 |
| 1972 | 10 | 1 | 2 | 6 | 232 | 234 | 246 | 171 | 129 | 89 | 66 | 3 | 1190 |
| 1973 | 0 | 0 | 0 | 27 | 157 | 411 | 259 | 447 | 381 | 250 | 97 | 8 | 2037 |
| 1974 | 21 | 5 | 16 | 0 | 270 | 394 | 150 | 147 | 479 | 205 | 0 | 0 | 1687 |
| 1975 | 7 | 0 | 4 | 0 | 117 | 342 | 407 | 208 | 368 | 233 | 13 | 87 | 1787 |
| 1976 | 3 | 0 | 6 | 73 | 117 | 407 | 130 | 105 | 213 | 221 | 36 | 0 | 1310 |
| 1977 | 0 | 0 | 0 | 35 | 133 | 321 | 60 | 315 | 316 | 156 | 89 | 14 | 1439 |
| 1978 | - | - | - | - | - | 432 | 427 | 265 | 486 | 172 | 17 | 69 | - |
| 1979 | 0 | 0 | 17 | 83 | - | - | - | - | - | - | - | - | - |
| Av. | 7 | 6 | 6 | 44 | 163 | 328 | 264 | 250 | 339 | 202 | 55 | 21 | 1670 |

STATION: JARDINES MIL FLORES

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OGU | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1966 | - | - | - | - | - | - | - | - | - | - | 0 | 0 | - |
| 1967 | 0 | 0 | 0 | 0 | 27 | 157 | 99 | 147 | 117 | 25 | 0 | 10 | 582 |
| 1968 | 0 | 0 | 0 | 8 | 67 | 242 | 72 | 81 | 145 | 134 | 23 | 5 | 778 |
| 1969 | 0 | 24 | 1 | 35 | 133 | 254 | 215 | 259 | 362 | 108 | 15 | 6 | 1411 |
| 1970 | 4 | 1 | 0 | 38 | 70 | 94 | 207 | 188 | 328 | 62 | 3 | 0 | 995 |
| 1971 | 0 | 1 | 0 | 2 | 135 | 245 | 119 | 206 | 147 | 102 | 29 | 11 | 997 |
| 1972 | 4 | 4 | 6 | 0 | 71 | 181 | 63 | 139 | 101 | 43 | 23 | 0 | 636 |
| 1973 | 0 | 0 | 0 | 31 | 176 | 277 | 127 | 378 | 260 | 116 | 33 | 6 | 1403 |
| 1974 | 8 | 1 | 28 | 1 | 97 | 252 | 104 | 107 | 305 | 57 | 0 | 0 | 960 |
| 1975 | 0 | 0 | 2 | 13 | 71 | 90 | 171 | 190 | 155 | 61 | 1 | 3 | 757 |
| 1976 | 0 | 1 | 0 | 75 | 73 | 253 | 142 | 69 | 124 | 61 | 31 | 0 | 829 |
| 1977 | 0 | 0 | 0 | 23 | 63 | 156 | 80 | 235 | 137 | 18 | 21 | 3 | 736 |
| 1978 | 1 | 2 | - | - | 72 | 119 | 227 | 117 | 299 | - | - | 24 | - |
| 1979 | 3 | 1 | 5 | 23 | 90 | 192 | 133 | 190 | 209 | 61 | 16 | 3 | 925 |
| 1980 | 2 | 4 | 0 | 1 | 54 | 176 | 131 | 199 | 252 | 44 | 4 | 9 | 876 |
| 1981 | 45 | 0 | 18 | 81 | 68 | 191 | 193 | 142 | 185 | 173 | - | 1 | - |
| 1982 | 8 | 0 | - | 65 | 115 | 351 | 124 | 24 | 327 | - | - | - | - |
| 1983 | - | - | - | - | - | 211 | 99 | 90 | 199 | 87 | 20 | 6 | - |
| 1984 | 21 | 1 | 26 | 18 | 148 | 167 | 257 | 85 | - | 66 | 0 | 0 | - |
| 1985 | 0 | 0 | 1 | 1 | - | - | - | - | - | 107 | - | - | - |
| 1986 | 0 | - | - | - | 150 | 103 | 79 | 175 | 103 | 119 | 1 | - | - |
| Av. | 5 | 2 | 5 | 24 | 93 | 195 | 139 | 159 | 209 | 80 | 13 | 5 | 914 |

MONTHLY RAINFALL RECORD

STATION: CHICHOY

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1966 | - | - | - | - | - | 373 | 209 | 186 | 210 | 201 | 49 | 6 | - |
| 1967 | 24 | 26 | 32 | 99 | 12 | 313 | 178 | 183 | 134 | 235 | 46 | 42 | 1322 |
| 1968 | 10 | 5 | 0 | 0 | 213 | - | - | - | - | - | - | - | - |
| 1977 | 0 | 0 | 0 | 30 | 142 | 161 | 14 | 121 | 116 | 83 | 89 | 40 | 796 |
| 1978 | 0 | 0 | 40 | 0 | 240 | 120 | 140 | 185 | 146 | 48 | 75 | 20 | 1014 |
| 1979 | 0 | 21 | 90 | 160 | 143 | 145 | 207 | 114 | 311 | 81 | 81 | 17 | 1370 |
| 1980 | - | 0 | 60 | 30 | 107 | 111 | 101 | - | 139 | 136 | 125 | - | - |
| Av. | 7 | 9 | 37 | 53 | 143 | 204 | 142 | 158 | 176 | 131 | 77 | 25 | 1125 |

STATION: EL RECUERDO

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1967 | - | - | - | - | - | - | 125 | 232 | 230 | 206 | 21 | 9 | 823 |
| 1968 | 26 | 3 | 1 | 20 | 181 | 366 | 202 | 142 | 253 | 246 | 91 | 23 | 1554 |
| 1969 | 7 | 9 | 15 | 58 | 271 | 224 | 280 | 444 | 682 | 216 | 22 | 5 | 2233 |
| 1970 | 7 | 7 | 12 | 79 | 201 | 132 | 246 | 246 | 385 | 125 | 47 | 8 | 1496 |
| 1971 | 20 | 20 | 5 | 40 | 111 | 445 | 206 | 196 | 308 | 253 | 89 | 11 | 1704 |
| 1972 | 11 | 15 | 3 | 6 | 95 | 168 | 110 | 98 | 95 | 87 | 44 | 22 | 754 |
| 1973 | 2 | 3 | 2 | 56 | 197 | 334 | 225 | 485 | 419 | 221 | 33 | 7 | 1984 |
| 1974 | 28 | 15 | 4 | 31 | 146 | 356 | 85 | 91 | 468 | 81 | 20 | 1 | 1324 |
| 1975 | 5 | 0 | 1 | 2 | 35 | 120 | 196 | 137 | 197 | 50 | 21 | 6 | 769 |
| 1976 | 0 | 2 | 0 | 64 | 85 | 609 | 233 | 132 | 178 | 41 | 29 | 1 | 1374 |
| 1977 | 0 | 0 | 0 | 120 | 98 | 245 | 128 | 145 | 157 | 21 | 14 | 8 | 935 |
| 1978 | 4 | 5 | 78 | 39 | 57 | 166 | 197 | 189 | 299 | 61 | 7 | 8 | 1109 |
| 1979 | 2 | 0 | 15 | 46 | 71 | 139 | 173 | 151 | 516 | 67 | 1 | 11 | 1192 |
| 1980 | 23 | 0 | 1 | 57 | 61 | 268 | 232 | 98 | 288 | 57 | 19 | 8 | 1112 |
| 1981 | 6 | 1 | 41 | 10 | 133 | 295 | 229 | 126 | 182 | 218 | 2 | 7 | 1249 |
| 1982 | 7 | 2 | 3 | 1 | 155 | 238 | 134 | 46 | 360 | 183 | 3 | 4 | 1137 |
| 1983 | 3 | 103 | 41 | 43 | 24 | 176 | 167 | 122 | 188 | 51 | 81 | 5 | 1004 |
| 1984 | 6 | 1 | 23 | 9 | 189 | 171 | 189 | 161 | 294 | 99 | 9 | 10 | 1160 |
| 1985 | 0 | 7 | 4 | 8 | 149 | 258 | 182 | 223 | 330 | 171 | 52 | 4 | 1389 |
| 1986 | 2 | 0 | 0 | 14 | 168 | 216 | 128 | 152 | 200 | 125 | 16 | 7 | 1028 |
| 1987 | 2 | 3 | 177 | 56 | 89 | 218 | 235 | 209 | 156 | 39 | 7 | 4 | 1195 |
| 1988 | 0 | 4 | 0 | 9 | 56 | 303 | 185 | 275 | 280 | 100 | 20 | 10 | 1243 |
| 1989 | 8 | 10 | 3 | 23 | - | 116 | 150 | 139 | 298 | 154 | 36 | 16 | 944 |
| Av. | 8 | 10 | 20 | 36 | 122 | 253 | 184 | 184 | 294 | 125 | 30 | 8 | 1248 |

MONTHLY RAINFALL RECORD

STATION: SAN CARLOS MIRAMAR

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-------|
| 1960 | 11 | 11 | 0 | 216 | 851 | 656 | 305 | 507 | 489 | 410 | 132 | 16 | 3604 |
| 1961 | 0 | 128 | 75 | 171 | 240 | 546 | 311 | 222 | 674 | 287 | 260 | 65 | 2978 |
| 1962 | 0 | 30 | 25 | 70 | 292 | 824 | 143 | 427 | 586 | 97 | 0 | 0 | 2494 |
| 1963 | 0 | 85 | 48 | 57 | 165 | 290 | 224 | 114 | 530 | 140 | 227 | 0 | 1880 |
| 1964 | 30 | 0 | 0 | 187 | 246 | 808 | 533 | 592 | 570 | 375 | 95 | 44 | 3480 |
| 1965 | 25 | 25 | 0 | 100 | 312 | 812 | 287 | 320 | 742 | 605 | 0 | 0 | 3228 |
| 1966 | 25 | 64 | 14 | 211 | 490 | 424 | 375 | 552 | 778 | 645 | 16 | 34 | 3628 |
| 1967 | 0 | 32 | 116 | 150 | 72 | 735 | 253 | 475 | 597 | 336 | 60 | 150 | 2976 |
| 1968 | 18 | 0 | 27 | 41 | 527 | 1002 | 270 | 159 | 553 | 448 | 211 | 38 | 3294 |
| 1969 | 5 | 50 | 168 | 256 | 482 | 788 | 406 | 849 | 948 | 873 | 44 | 86 | 4954 |
| 1970 | 24 | 57 | 26 | 127 | 352 | 370 | 764 | 392 | 679 | 185 | 244 | 2 | 3222 |
| 1971 | 135 | 8 | 8 | 137 | 846 | 84 | 290 | 758 | 566 | 680 | 83 | 17 | 3052 |
| 1972 | 8 | 19 | 28 | 42 | 453 | 739 | 349 | 237 | 195 | 148 | 113 | 65 | 2396 |
| 1973 | 5 | 17 | 105 | 201 | 521 | 286 | 308 | 648 | 743 | 465 | 118 | 34 | 4051 |
| 1974 | 34 | 50 | 138 | 34 | 800 | 908 | 283 | 83 | 957 | 66 | 32 | 5 | 3390 |
| 1975 | 5 | 26 | 26 | 76 | 374 | 388 | 513 | 423 | 785 | 413 | 110 | 0 | 3139 |
| 1976 | 0 | 74 | 19 | 342 | 209 | 665 | 267 | 125 | 399 | 424 | 68 | 0 | 2592 |
| 1977 | 16 | 38 | 91 | 139 | 353 | 447 | 93 | 442 | 401 | 38 | 23 | 37 | 2102 |
| 1978 | 16 | 33 | 90 | 123 | 150 | 207 | 234 | 237 | 415 | 147 | 30 | 35 | 1717 |
| 1979 | 14 | 1 | 41 | 278 | 446 | 338 | 594 | 528 | 1088 | 567 | 8 | 86 | 3988 |
| 1980 | 31 | 62 | 94 | 148 | 282 | 445 | 409 | 509 | 565 | 283 | 156 | 45 | 3029 |
| 1981 | 41 | 5 | 95 | 237 | 594 | 1067 | 523 | 556 | 686 | 420 | 94 | 51 | 4369 |
| 1982 | 109 | 69 | 35 | 219 | 542 | 364 | 251 | 158 | 593 | 323 | 47 | 0 | 2710 |
| 1983 | 10 | 54 | 34 | 220 | 221 | 523 | 470 | 354 | 609 | 117 | 204 | 0 | 2816 |
| 1984 | 35 | 17 | 65 | 25 | 639 | 519 | 661 | 674 | 544 | 243 | 18 | 10 | 3450 |
| 1985 | 15 | 25 | 35 | 61 | 214 | 623 | 412 | 320 | 415 | 217 | 220 | 0 | 2557 |
| 1986 | 22 | 27 | 0 | 92 | 495 | 511 | 477 | 404 | 188 | 300 | 60 | 11 | 2287 |
| 1987 | 0 | 0 | 259 | 160 | 276 | 372 | 406 | 236 | 403 | 216 | 79 | 0 | 2407 |
| 1988 | 77 | 0 | 58 | 294 | 193 | 772 | 552 | 943 | 740 | 155 | 171 | 33 | 3988 |
| 1989 | 0 | 65 | 83 | 202 | 437 | 346 | 353 | 422 | 544 | 179 | 94 | 43 | 2768 |
| Av. | 24 | 36 | 60 | 154 | 402 | 562 | 377 | 422 | 599 | 327 | 101 | 30 | 3085 |

MONTHLY RAINFALL RECORD

STATION: LA ESMERALDA

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-------|
| 1961 | 1 | 115 | 60 | 189 | 174 | 541 | 470 | 697 | 1151 | 283 | 518 | 124 | 4323 |
| 1962 | 36 | 1 | 77 | 390 | 506 | 835 | 522 | 460 | 575 | 498 | 217 | 20 | 4137 |
| 1963 | 6 | 149 | 91 | 141 | 423 | 624 | 546 | 405 | 773 | 481 | 204 | 0 | 3843 |
| 1964 | 17 | 63 | 51 | 73 | 247 | 802 | 439 | 685 | 545 | 586 | 240 | 206 | 3954 |
| 1965 | 21 | 88 | 8 | 155 | 275 | 683 | 501 | 588 | 830 | 683 | 56 | 14 | 3902 |
| 1966 | 24 | 2 | 38 | 357 | 502 | 748 | 679 | 506 | 745 | 467 | 113 | 26 | 4207 |
| 1967 | 5 | 42 | 163 | 168 | 169 | 713 | 353 | 469 | 699 | 393 | 135 | 108 | 3417 |
| 1968 | 37 | 83 | 0 | 97 | 549 | 1041 | 407 | 560 | 853 | 736 | 181 | 20 | 4564 |
| 1969 | 65 | 110 | 183 | 222 | 578 | 686 | 572 | 899 | 782 | 736 | 218 | 59 | 5110 |
| 1970 | 44 | 12 | 8 | 93 | 322 | 667 | 765 | 502 | 784 | 418 | 342 | 4 | 3961 |
| 1971 | 69 | 87 | 190 | 277 | 559 | 656 | 548 | 665 | 637 | 630 | 151 | 15 | 4484 |
| 1972 | 1 | 83 | 162 | 76 | 576 | 364 | 525 | 313 | 381 | 546 | 236 | 7 | 3269 |
| 1973 | 3 | 26 | 28 | 197 | 566 | 705 | 447 | 807 | 709 | 648 | 216 | 154 | 4506 |
| 1974 | 125 | 46 | 142 | 47 | 488 | 531 | 386 | 291 | 606 | 219 | 133 | 39 | 3053 |
| 1975 | 15 | 25 | 40 | 48 | 376 | 546 | 529 | 495 | 690 | 546 | 354 | 131 | 3765 |
| 1976 | 60 | 2 | 12 | 235 | 308 | 641 | 336 | 463 | 388 | 624 | 205 | 19 | 3323 |
| 1977 | 12 | 22 | 13 | 192 | 484 | 514 | 246 | 489 | 475 | 531 | 179 | 86 | 3243 |
| 1978 | 79 | 85 | 137 | 203 | 360 | 594 | 503 | 598 | 678 | 408 | 81 | 47 | 3773 |
| 1979 | 90 | 22 | 61 | 233 | 406 | 527 | 625 | 581 | 1001 | 607 | 67 | 75 | 4295 |
| 1980 | 154 | 51 | 43 | 393 | 458 | 544 | 482 | 749 | 718 | 557 | 65 | 86 | 4300 |
| 1981 | 89 | 0 | 306 | 328 | 404 | 855 | 575 | 868 | 637 | 540 | 142 | 202 | 4946 |
| 1982 | 0 | 78 | 21 | 381 | 291 | 436 | 401 | 357 | 731 | 476 | 213 | 24 | 3409 |
| 1983 | 0 | 68 | 55 | 299 | 230 | 543 | 646 | 663 | 659 | 466 | 318 | 45 | 3992 |
| 1984 | 22 | 140 | 108 | 102 | 792 | 729 | 653 | 703 | 1061 | 242 | 60 | 2 | 4614 |
| 1985 | 130 | 9 | 85 | 224 | 416 | 538 | 558 | 512 | 516 | 475 | 198 | 19 | 3680 |
| 1986 | 22 | 18 | 5 | 70 | 437 | 348 | 414 | 465 | 571 | 387 | 106 | 18 | 2861 |
| 1987 | 10 | 2 | 88 | 235 | 233 | 526 | 661 | 625 | 642 | 423 | 179 | 243 | 3867 |
| 1988 | 48 | 11 | 37 | 174 | 312 | 515 | 469 | 965 | 817 | 338 | 184 | 18 | 3888 |
| 1989 | 2 | 71 | 9 | 177 | 273 | - | - | - | - | - | - | - | - |
| Av. | 41 | 52 | 77 | 199 | 404 | 623 | 509 | 585 | 702 | 498 | 190 | 65 | 3953 |

MONTHLY RAINFALL RECORD

STATION: SAN JERONIMO

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-------|
| 1961 | - | - | - | - | - | - | 432 | 591 | 1040 | 438 | 551 | 150 | - |
| 1962 | 25 | 5 | 76 | 301 | 437 | 1059 | 584 | 724 | 701 | 762 | 290 | 0 | 4963 |
| 1963 | 15 | 155 | 114 | 231 | 373 | 673 | 696 | 546 | 889 | 658 | 264 | 0 | 4615 |
| 1966 | 0 | 28 | 61 | 142 | 305 | 711 | 922 | 920 | 815 | 975 | 290 | 102 | 5271 |
| 1967 | 0 | 5 | 41 | 371 | 605 | 734 | 615 | 584 | 780 | 747 | 213 | 20 | 4714 |
| 1968 | 0 | 13 | 213 | 231 | 287 | 709 | 457 | 521 | 732 | 422 | 166 | 107 | 3857 |
| 1969 | 6 | 221 | 229 | 216 | 569 | 899 | 704 | 1095 | 815 | 887 | 213 | 86 | 5940 |
| 1970 | 41 | 10 | 8 | 127 | 196 | 650 | 963 | 666 | 935 | 584 | 249 | 0 | 4427 |
| 1971 | 48 | 56 | 51 | 178 | 536 | 541 | 450 | 574 | 704 | 785 | 168 | 36 | 4126 |
| 1972 | 51 | 58 | 117 | 175 | 608 | 517 | 567 | 385 | 583 | 482 | 183 | 6 | 3730 |
| 1973 | 3 | 29 | 66 | 202 | 570 | 736 | 537 | 710 | 725 | 780 | 150 | 43 | 4550 |
| 1974 | 126 | 31 | 49 | 76 | 418 | 688 | 435 | 338 | 706 | 289 | 64 | 2 | 3251 |
| 1975 | 11 | 19 | 90 | 76 | 401 | 593 | 502 | 591 | 811 | 454 | 278 | 91 | 3916 |
| 1976 | 35 | 2 | 47 | 297 | 477 | 694 | 332 | 388 | 564 | 479 | 203 | 44 | 3561 |
| 1977 | 37 | 23 | 12 | 193 | 489 | 550 | 170 | 579 | 490 | 566 | 182 | 116 | 3407 |
| 1978 | 69 | 14 | 81 | 246 | 345 | 641 | 620 | 589 | 701 | 409 | 46 | 47 | 3808 |
| 1979 | 10 | 31 | 169 | 290 | 537 | 428 | 493 | 674 | 837 | 675 | 55 | 60 | 4259 |
| 1980 | 87 | 4 | 65 | 193 | 398 | 525 | 560 | 679 | 456 | 598 | 133 | 77 | 3774 |
| 1981 | 29 | 56 | 256 | 262 | 408 | 1026 | 511 | 969 | 509 | 547 | 175 | 72 | 4850 |
| 1982 | 5 | 95 | 6 | 363 | 221 | 458 | 568 | 332 | 717 | 285 | 59 | 10 | 3117 |
| 1983 | 0 | 49 | 30 | 164 | 207 | 701 | 499 | 423 | 843 | 384 | 361 | 0 | 3661 |
| 1984 | 33 | 123 | 108 | 65 | 712 | 656 | 689 | 628 | 909 | 409 | 61 | 0 | 4391 |
| 1985 | 32 | 29 | 57 | 226 | 451 | 386 | 598 | 411 | 459 | 435 | 195 | 80 | 3358 |
| 1986 | 21 | 30 | 32 | 125 | 526 | 326 | 490 | 525 | 562 | 548 | 152 | 7 | 3343 |
| 1987 | 0 | 0 | 114 | 191 | 255 | 522 | 539 | 799 | 903 | 333 | 218 | 138 | 4011 |
| 1988 | 99 | 10 | 40 | 103 | 621 | 811 | 550 | 757 | 707 | 418 | 169 | 38 | 4323 |
| 1989 | 15 | 18 | 3 | 190 | 612 | 381 | 623 | 757 | 700 | 496 | - | - | - |
| Av. | 31 | 43 | 82 | 201 | 445 | 639 | 559 | 620 | 726 | 550 | 196 | 51 | 4129 |

MONTHLY RAINFALL RECORD

STATION: RANCHO DE TEJA

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | Aug | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1966 | - | - | - | - | - | 297 | 239 | 218 | 242 | 137 | 32 | 10 | - |
| 1967 | 24 | 6 | 8 | - | 3 | 214 | - | - | - | - | - | - | - |
| 1977 | 0 | 5 | 33 | 66 | 156 | 193 | 83 | 156 | 117 | 71 | 60 | 32 | 970 |
| 1978 | 12 | 1 | 21 | 30 | 142 | 256 | 290 | 164 | 411 | 93 | 50 | 24 | 1494 |
| 1979 | 25 | 1 | 17 | 73 | 128 | 233 | 230 | 240 | 448 | 128 | 19 | 84 | 1625 |
| 1980 | 35 | 3 | 2 | 48 | 53 | 197 | 188 | 166 | 167 | 63 | 34 | 23 | 976 |
| 1981 | 0 | 31 | 19 | 26 | 112 | 372 | 208 | 226 | 305 | 144 | 8 | 11 | 1463 |
| 1982 | 1 | 21 | 10 | 7 | 290 | 310 | 198 | 110 | 330 | 130 | 30 | 3 | 1439 |
| 1983 | 2 | 125 | 62 | 102 | 127 | 296 | 197 | 180 | 207 | 138 | 105 | 13 | 1524 |
| 1984 | 11 | 2 | 10 | 31 | 239 | 211 | 314 | 163 | 189 | 93 | 18 | 18 | 1299 |
| 1985 | 3 | 13 | 18 | 46 | 187 | 273 | 142 | 240 | 238 | 152 | 33 | 40 | 1384 |
| 1986 | 5 | 6 | 2 | 14 | 160 | 123 | 178 | 141 | 293 | 144 | 53 | 8 | 1126 |
| 1987 | 0 | 42 | 57 | 71 | 90 | 233 | 281 | 246 | 189 | 62 | 22 | 9 | 1269 |
| 1988 | 13 | 9 | 2 | 9 | 98 | 411 | 143 | 404 | 279 | 166 | 42 | 4 | 1581 |
| 1989 | 16 | 11 | 2 | 62 | 130 | 191 | 169 | 206 | 307 | 135 | 49 | 6 | 1284 |
| Av. | 10 | 20 | 19 | 45 | 137 | 254 | 204 | 204 | 266 | 118 | 40 | 20 | 1341 |

MONTHLY RAINFALL RECORD

Unit: mm

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1960 | 0 | 17 | 0 | 47 | 179 | 227 | 106 | 111 | 81 | 146 | 78 | 0 | 991 |
| 1961 | 11 | 4 | 64 | 10 | 94 | 117 | 137 | 104 | 107 | 65 | 146 | 10 | 869 |
| 1962 | 1 | 0 | 0 | 45 | 63 | 276 | 41 | 105 | 119 | 62 | 5 | 0 | 717 |
| 1963 | 0 | 3 | 4 | 45 | 36 | 91 | 103 | 72 | 119 | 75 | 57 | 0 | 602 |
| 1964 | 0 | 1 | 0 | 20 | 21 | 197 | 159 | 101 | 181 | 72 | 58 | 1 | 807 |
| 1965 | 3 | 0 | 0 | 5 | 52 | 186 | 34 | - | - | - | - | - | - |
| Av. | 2 | 4 | 11 | 28 | 74 | 182 | 97 | 99 | 121 | 84 | 69 | 2 | 797 |

STATION: LABOR OVALLE PHC 'A'

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | OG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1971 | 4 | 2 | 0 | 64 | 96 | 147 | 111 | 187 | 87 | 86 | 16 | 0 | 741 |
| 1972 | 0 | 0 | 0 | 14 | 150 | 192 | 65 | 47 | 108 | 64 | 32 | 1 | 699 |
| 1973 | 0 | 0 | 0 | 12 | 162 | 216 | 91 | 229 | 84 | 190 | 21 | 2 | 1006 |
| 1974 | 1 | 0 | 4 | 1 | 134 | 99 | 82 | 56 | 245 | 21 | 0 | 0 | 644 |
| 1975 | 1 | 0 | 1 | 4 | 129 | 150 | 71 | 118 | 179 | 97 | 8 | 5 | 761 |
| 1976 | 0 | 2 | 6 | 44 | 78 | 244 | 70 | 87 | 133 | 67 | 16 | 0 | 748 |
| 1977 | 0 | 1 | 0 | 57 | 140 | 114 | 22 | 295 | 153 | 63 | 51 | 4 | 900 |
| 1978 | 0 | 3 | 1 | 65 | 73 | 124 | 103 | 110 | 173 | 77 | 23 | 18 | 770 |
| 1979 | 0 | 0 | 7 | 67 | 113 | 158 | 139 | 180 | 307 | 81 | 3 | 1 | 1055 |
| 1980 | 2 | 3 | 7 | 87 | 63 | 145 | 127 | 193 | 152 | 71 | 26 | 3 | 878 |
| 1981 | 0 | 0 | 33 | 37 | 112 | 195 | 115 | 153 | 165 | 83 | 0 | 2 | 894 |
| 1982 | 0 | 17 | 4 | 3 | 133 | 138 | 69 | 44 | 146 | 34 | 29 | 1 | 617 |
| 1983 | 1 | 104 | 36 | 6 | 43 | 92 | 76 | 93 | 95 | 110 | 69 | 18 | 743 |
| 1984 | 0 | 9 | 0 | 16 | 202 | 112 | 206 | 87 | 180 | 47 | 1 | 0 | 860 |
| 1985 | 0 | 0 | 0 | 36 | 141 | 109 | 146 | 122 | 162 | 71 | 14 | 13 | 814 |
| 1986 | 0 | 3 | 1 | 21 | 180 | 133 | 68 | 120 | 84 | 84 | 7 | 0 | 700 |
| 1987 | 0 | 0 | 97 | 24 | 91 | 112 | 120 | 69 | 87 | 19 | 4 | 2 | 723 |
| 1988 | 1 | 0 | 1 | 22 | 43 | 245 | 84 | 129 | 223 | 78 | 22 | 0 | 829 |
| 1989 | 0 | - | 1 | 79 | 171 | 140 | 104 | 115 | 223 | 69 | 9 | 2 | 913 |
| Av. | 0 | 8 | 11 | 35 | 119 | 151 | 98 | 128 | 157 | 74 | 18 | 4 | 805 |

UNIT 1: THE HISTORY OF THE UNITED STATES

The history of the United States is a complex and multifaceted story that spans centuries. It begins with the arrival of Native Americans in the continent, followed by the exploration and settlement by European powers. The United States was founded as a nation in 1776, and since then, it has experienced significant growth, change, and challenges. The country's history is marked by the struggle for independence, the Civil War, the Civil Rights Movement, and the Vietnam War, among others. The United States has also played a major role in the world, shaping global politics and culture.

UNIT 2: THE AMERICAN WEST AND THE FRONTIERS

The American West and the frontiers are central to the nation's identity and history. The West is a region that has been defined by its vast, open spaces, its rugged terrain, and its diverse cultures. The frontiers are the edges of the settled areas, where the unknown meets the known. The American West and the frontiers have been the site of many important events, including the discovery of gold, the settlement of the West, and the struggle for land and resources. The West and the frontiers have also been the source of many of the nation's most famous legends and stories. The American West and the frontiers continue to shape the nation's identity and history today.

UNIT 3: THE AMERICAN SOUTH AND THE CIVIL WAR

The American South and the Civil War are two of the most significant periods in the nation's history. The South is a region that has been defined by its plantation economy, its social hierarchy, and its culture. The Civil War was a conflict that shaped the nation's future, as it fought to preserve the Union and to end slavery. The South and the Civil War have been the subject of much historical study and debate. The South and the Civil War continue to shape the nation's identity and history today.

7. EXISTING WELL RECORD

Table (1) Existing Well Record (1)

| Location of Well | Aquifer | Drilled Depth(m) | Diameter(mm) | Discharge (Q=ℓ/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc(Q/s) (m ³ /d/m) | T (m ³ /d) | PH | Ec25 (μs/cm) | Remarks | |
|---|---------|------------------|--------------|-------------------|--------------|--------------|-------------------------------|-----------------------|-----|--------------|------------|--|
| Groundwater Basin : Rio Platanos Basin ① | | | | | | | | | | | | |
| Gu.2 San Jose Pinula No1 | Tv | 213.30 | | 0.76 | | | | | | | Now stop | |
| " No2 | | 106.7 | | 3.78 | | | | | 6.3 | 88 | | |
| " No3 | | 121.9 | | 3.78 | | | | | | | | |
| " No4 | | 121.9 | | 9.46 | 24.4 | | | | | 6.1 | 95 | |
| Groundwater Basin : Rio Acuapaca Basin ② | | | | | | | | | | | | |
| Gu.12 Fraijanes | Tv | 121.92 | 200 | 0.95 | 50.29 | 111.55 | 1.34 | | | | | |
| Groundwater Basin : Rio Vacas & Lago de Amatitlan Basin ③-1 | | | | | | | | | | | | |
| Gu.13 Amatitlan | Qa | 137.16 | 250 | 61.00 | 23.47 | 23.47 | | | | | | |
| " El Cementerio | | 106.68 | 200 | 27.44 | 31.70 | 36.57 | 483.84 | | | | | |
| " San Nicos | | 128.02 | 200 | 32.17 | 28.04 | 28.04 | | | | | | |
| Gu.15 Villa Canales 2 | | 42.0 | | 17.00 | 12.0 | | | | | | | |
| " Baca del Monte 2 | | 134.1 | 200 | | 9.4 | 14.3 | | | | | | |
| " 3 | | 134.1 | 200 | 20.50 | 6.7 | 14.3 | 233.05 | | | | | |
| Groundwater Basin : Rio Vacas & Lago de Amatitlan Basin ③-2 | | | | | | | | | | | | |
| Parque Colon | Qp | 182.88 | 200 | 18.93 | 40.95 | 52.84 | 137.54 | 75.2 | | | Guat.City | |
| Talleres Municipales II | | 230.43 | 200 | 18.42 | 54.86 | 81.68 | 59.34 | 10.0 | | | " | |
| SAKERTI DAS | | 177.00 | 200 | 4.23 | 129.54 | 151.04 | 17.00 | 12.0 | | | Guat. City | |
| Talleres Municipales III | | 229.21 | 200 | 18.93 | 53.39 | 99.36 | 35.57 | 60.0 | | | " | |
| Ciudad San Cristobal 9 | | | 200 | 14.19 | 26.82 | 60.35 | 36.57 | 10.0 | | | " | |
| Ciudad Universitaria No3 | | 146.30 | 150 | 7.89 | 93.27 | 108.72 | 44.10 | 95.0 | | | " | |
| Das-Universidad San Carlos | | | 150 | 12.93 | 93.55 | 94.80 | 893.95 | 750.0 | | | " | |
| Santo Domingo 6 | | 182.88 | 200 | 22.67 | 31.48 | 46.05 | 132.05 | 285.0 | | | " | |
| Parque Hasted | | 304.80 | 200 | 20.57 | 45.17 | 90.89 | 38.86 | 297.0 | | | Guat. City | |
| Gu.7 El Molino III | | 301.75 | 200 | 15.77 | 23.75 | 102.68 | 17.26 | 10.0 | | | Mixco | |
| " I | | 301.75 | 200 | 17.35 | 22.86 | 44.20 | 70.24 | 80.0 | | | " | |
| Gu.7 Ciudad San Cristobal II-1 | | 121.92 | 300 | 10.41 | 24.54 | 26.95 | 373.14 | 335.0 | | Mixco | | |
| Gu.7 Filtros Brigada 2 | | 291.08 | 200 | 18.93 | 43.16 | 48.64 | 298.42 | 500.0 | | " | | |

Table

(2) Existing Well Record (2)

| Location of Well | Aqui-fer | Drilled Depth (m) | Dia-ter (mm) | Discharge (Q=ℓ/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc (Q/s) (m ³ /d/m) | T (m ³ /d) | PH | Ec25 (μs/cm) | Remarks |
|---|----------|-------------------|--------------|-------------------|--------------|--------------|--------------------------------|-----------------------|-----|--------------|-----------|
| Groundwater Basin : Rio Vacas & Lago de Amatitlan Basin ③-2 | | | | | | | | | | | |
| Gu.7 Filtros Brigada II | Qp | 315.77 | 200 | 18.93 | 43.54 | 47.50 | 17.20 | 285.0 | | | Mixco |
| Gu.7 Frorida I | | 280.42 | 200 | 12.62 | 39.41 | 112.56 | 14.19 | 10.0 | | | " |
| Gu.7 BELEN No3 | | 261.52 | 200 | 18.93 | 73.71 | 88.07 | 113.88 | 80.0 | | | " |
| Gu.7 PLANTA La BRIGADA No1 | | 213.36 | 150 | 20.12 | 86.87 | 125.58 | 44.91 | 38.0 | | | " |
| Gu.7 Brigada Belen Banvi | | 243.84 | 200 | 11.23 | 64.00 | 187.44 | 7.86 | 15.0 | | | " |
| Gu.7 Colonia le de JULIO No4 | | 178.31 | 200 | 20.50 | 51.82 | 57.00 | 341.97 | 6.0 | | | " |
| Gu.7 SAN JOSE LOS FINOS | | 182.88 | 200 | 11.36 | 64.00 | 120.69 | 13.30 | 16.0 | | | " |
| Gu.7 Planta la BAIGADA No2 | | 182.88 | 200 | 18.30 | 81.08 | 135.64 | 28.97 | 67.0 | | | " |
| Gu.7 EL RODEO II | | 204.21 | 200 | 11.86 | 63.14 | 72.65 | 107.76 | 190.0 | | | " |
| Gu.7 EL RODEO III | | 173.73 | 200 | 11.24 | 64.08 | 102.64 | 25.19 | 35.0 | | | " |
| Gu.7 Carolingia DAS | | 225.60 | 150 | 10.09 | 65.54 | 81.26 | 55.48 | 23.0 | | | Mixco |
| Gu.5 Chinautla | | 121.92 | 200 | 1.96 | 0 | 77.72 | 2.18 | | | | |
| Gu.16 San Miguel Petapa 1 | Tv | 182.9 | 200 | 1.58 | 14.3 | 33.5 | 7.11 | | | | |
| " 2 | | 123.1 | 200 | | 59.4 | | | | | | |
| DAS el Carmen Guillen | | 124.08 | 150 | 12.68 | 93.82 | 94.04 | 4980.00 | 5000.0 | | | petapa |
| Gu.1 Santa Catarina Pinula 1 | | 152.4 | | 9.46 | 51.8 | 112.70 | 13.42 | | 6.0 | 140 | |
| " 2 | | 195.0 | | 12.62 | 76.2 | 121.90 | 38.86 | | | | |
| Ga.14 Villa Nueva S Francisco | | 245.7 | 200 | 18.93 | 143.2 | 146.3 | 527.60 | | | | |
| " Sta Isabel | | 243.8 | 200 | 10.35 | 201.2 | 201.2 | | | | | |
| Ga.15 Villa Canales 1 | | 167.0 | | 64.35 | 24.0 | | | | 7.0 | 247 | |
| Gu.15 Villa Canales 3 | | 247.0 | | 17.0 | 32.0 | | | | | | |
| " Baca del Monte 1 | | 153.3 | 200 | 5.68 | 91.4 | 133.5 | 11.66 | | | | |
| " Aldea Calnenas 1 | | 154.8 | 200 | 1.73 | 139.6 | 152.7 | 11.41 | | | | |
| Sa.10 Magdalena Milpas Altas | | 182.9 | 200 | 36.09 | 48.8 | 162.1 | 27.57 | | | | |
| Sa.10 Magdalena Milpas Altas | | 167.0 | | 9.4 | 126.0 | | | | | | |
| Boulevard Liberacion | Qp/Tv | 185.93 | 250 | 18.93 | 53.34 | 124.56 | 22.96 | 160.0 | | | Guat.City |
| Avenida Las Americas | | 182.88 | 250 | 11.97 | 55.47 | 103.32 | 21.64 | 20.0 | | | " |

Table (3) Existing Well Record (3)

| Location of Well | Aqui-fer | Drilled Depth(m) | Dia-me-ter(mm) | Discharge (Q= Q/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc(Q/s) (m ³ /d/m) | T (m ³ /d) | PH | Ec25 (µs/cm) | Remarks |
|---|----------|------------------|----------------|--------------------|--------------|--------------|-------------------------------|-----------------------|-----|--------------|-------------|
| Groundwater Basin : Rio Vacas & Lago de Amatitlan Basin ③-3 | | | | | | | | | | | |
| Parque Navidad | Qp/Tv | 304.80 | 200 | 28.01 | 41.31 | 77.58 | 66.72 | 17.0 | | | " |
| Puerta Parada Das(Villa Canales) | | 209.00 | 150 | 12.62 | 37.61 | 45.65 | 135.61 | 443.0 | | | Villa Cana. |
| Gu.14 Villa Nueva 1 | | 189.0 | | 11.04 | 119.0 | | | | 7.0 | 308 | |
| " 2 | | 183.0 | | 11.04 | | | | | | | |
| " 3 | | 189.0 | | 18.93 | 141.73 | 146.30 | 357.89 | | | | |
| " 4 | | 192.0 | | 11.04 | 82.3 | 155.5 | 11.16 | | | | |
| " Callos Planes 5 | | 188.37 | 200 | 9.46 | 82.29 | 155.45 | 11.16 | | | | |
| Gu.15 Villa Canales A.Porvinil | | 152.4 | 200 | 18.29 | 50.6 | 76.8 | 60.31 | | | | |
| " A.S.Jose e Iablon | | 176.8 | 150 | 5.80 | 42.7 | 160.9 | 4.24 | | | | |
| " Pila Publica | | 94.5 | 150 | 14.19 | 42.7 | 67.0 | 50.45 | | | | |
| Duralita Zona 6 | Br | 225.86 | 200 | 3.41 | 90.64 | 176.74 | 3.41 | 3.0 | | | Guat.city |
| Gu.14 Villa Nueva Lot.S Antonio | ? | 109.7 | 200 | | | | | | | | |
| S Miguelito | | | | 15.14 | | | | | | | |
| Gu.15 Villa Canales | | 182.9 | 200 | | | | | | | | |
| " Aldea Colnenas 2 | | 91.2 | 150 | 3.78 | | | | | | | |
| Groundwater Basin : Rio Pixcaya Basin ④-1 | | | | | | | | | | | |
| Sa.7 San Bartolome M. Altas 1 | Tv | 182.9 | | 5.00 | 152.4 | | | | | | |
| " 2 | | 182.9 | | 8.00 | 152.4 | | | | | | |
| Sa.8 San Lucas Scatepequez | | 182.9 | 150 | 4.16 | | | | | | | |
| " | | 189.6 | 200 | 14.26 | 58.8 | 124.1 | 18.87 | | | | |
| Sa.9 San Juan Sacatepequez 1 | | 158.5 | | | | | | | | | |
| " 2 | | 182.9 | | | | | | | | | |
| " 3 | | 298.7 | | dry well | | | | | | | |
| " 4 | | 182.9 | | 15.14 | 53.3 | 81.4 | 46.55 | | | | |
| Sa.9 San Juan Sacatepequez 5 | | 91.4 | | | | | | | | | |
| Ch.3 San Martin Jilotepeque | | 152.4 | | 0.32 | | | | | | | |
| Ch.4 San Juan Comalapa | | 60.0 | | 5.80 | | | | | | | |

Table (4) Existing Well Record (4)

| Table | | | | | | | | | | | |
|---|----------|------------------|-----------------|-------------------|--------------|--------------|------------------|----------|-----|--------------|---------|
| Location of Well | Aqui-fer | Drilled Depth(m) | Dia-me-ter (mm) | Discharge (Q=ℓ/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc(Q/s) (m³/d/m) | T (m³/d) | PH | Ec25 (µs/cm) | Remarks |
| Groundwater Basin : Rio Pixcaya Basin ④-2 | | | | | | | | | | | |
| Gu. 8 San Pedro Sacatepequez | Qp/Tv | 158.5 | 150 | 9.46 | 12.2 | 31.7 | 41.91 | | | | |
| " | | 78.0 | | 3.40 | 24.0 | | | | 6.0 | 145 | |
| Sa. 6 Santiago Sacatepequez | | 201.8 | 200 | 12.93 | 116.4 | 177.1 | 18.40 | | | | |
| " | | 182.9 | 150 | 12.62 | 87.4 | 106.7 | 49.56 | | | | |
| " | | 201.8 | 200 | 15.77 | 64.9 | 88.1 | 58.73 | | | | |
| Ch. 1 Chimaltenango 2 | | 155.4 | 200 | 1.89 | 70.1 | 103.6 | 4.87 | | | | |
| " 3 | | 152.4 | 200 | 11.36 | 86.7 | 99.2 | 78.52 | | | | |
| " 4 | | 166.7 | 200 | 6.18 | 97.5 | 105.2 | 69.34 | | | | |
| Ch. 15 Zaragoza | | 229.5 | 200 | 3.16 | 30.5 | 159.4 | 8.75 | | | | |
| Groundwater Basin : Rio Guacalate Basin ⑤-1 | | | | | | | | | | | |
| Sa. 1 Antigua Guatemala | Qa | 33.5 | 150 | 6.62 | 3.0 | 4.6 | 357.48 | | | | |
| " | | 171.0 | 150 | 18.93 | 0.0 | 0.0 | | | | | |
| " | | 96.0 | 150 | 9.46 | 3.1 | 4.6 | 544.89 | | | | |
| " | | 91.4 | 250 | 11.50 | 7.3 | 21.0 | 72.52 | | | | |
| " | | 91.4 | 250 | 10.71 | 16.8 | 16.8 | | | | | |
| Sa. 2 Jocotenango | | 158.8 | 200 | 31.55 | 6.7 | 19.5 | 212.96 | | | | |
| Jocotenango 1 | | | | 12.60 | | | | | | | |
| " 2 | | | | 15.80 | | | | | | | |
| " 3 | | 91.4 | | 11.04 | 5.8 | 22.9 | 55.78 | | | | |
| Groundwater Basin : Rio Guacalate Basin ⑤-2 | | | | | | | | | | | |
| Sa. 11 Santa Maria de Jesus | Qv | 217.3 | 200 | 13.06 | 104.5 | 145.7 | 27.39 | | | | |
| Sa. 12 Ciudad Vieja | | 76.2 | 150 | 12.62 | 28.9 | 61.0 | 33.97 | | 7.0 | 273 | |
| Sa. 12 Ciudad Vieja | | 144.8 | 150 | 15.77 | 25.3 | 63.4 | 35.76 | | | | |
| Sa. 12 Ciudad Vieja 1 | | 48.0 | | 4.12 | 42.0 | | | | 7.0 | 273 | |
| " 2 | | 36.0 | | 31.54 | 30.0 | | | | 6.5 | 253 | |
| " 3 | | 54.0 | | 6.0 | 48.0 | | | | 6.5 | 276 | |
| Sa. 14 San Juan Alotenango | | 157.0 | 200 | 13.56 | 105.8 | 119.1 | 88.09 | | | | |

Table (5) Existing Well Record (5)

| Location of Well | Aqui-fer | Drilled Depth(m) | Diam-eter(mm) | Discharge (Q= Q/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc(Q/s) (m ³ /d/m) | T (m ³ /d) | PH | Ec25 (µs/cm) | Remarks |
|---|----------|------------------|---------------|--------------------|--------------|--------------|-------------------------------|-----------------------|-----|--------------|--------------|
| Groundwater Basin : Rio Guacalate Basin ⑤-2 | | | | | | | | | | | |
| Sa.7 San Bartolom M. Altas | Tv | 182.9 | 200 | 15.14 | 96.0 | 101.8 | 225.53 | | | | |
| Sa.9 Santa Lucia M. Altas | | 182.9 | 200 | 3.79 | 48.8 | 162.2 | 2.89 | | 6.5 | 238 | |
| " | | | | 5.00 | | | | | | | |
| Sa.15 San Antonio Aguas Calientes | | 121.9 | | 1.70 | 50.3 | 107.3 | 2.57 | | | | |
| Ch.10 Santa Cruz Balanya | | 185.9 | 150 | 7.57 | 121.3 | 180.7 | 11.04 | | | | |
| Ch.13 San Ander Itzap | | 182.9 | 200 | 14.19 | 100.3 | 101.8 | 817.34 | | | | |
| Groundwater Basin : Lago de Atitlan Basin ⑦ | | | | | | | | | | | |
| Ch.14 Parramos | Qp/Tv | 164.6 | 200 | 9.08 | 97.5 | 99.1 | 490.32 | | | | |
| Ch.16 El Tejar | | 152.7 | 150 | 17.70 | 57.9 | 79.1 | 83.57 | | | | Present Data |
| " | | 161.5 | 150 | 14.89 | 64.9 | 69.8 | 262.55 | | | | Initial Data |
| " | | 121.9 | 150 | 8.83 | | | | | 6.5 | 223 | Present Data |
| " | | 122.1 | 150 | 8.83 | 59.4 | 73.5 | 54.11 | | | | Initial Data |
| | | 122.8 | 150 | 3.78 | | | | | 6.5 | 204 | Present Data |
| | | 146.3 | 150 | 3.78 | 68.4 | 73.5 | 70.99 | | | | Initial Data |
| Groundwater Basin : Lago de Atitlan Basin ⑦ | | | | | | | | | | | |
| Sa.10 Panajachel | Qa | 121.9 | | 27.13 | 33.8 | 45.5 | 200.34 | | | | |
| Groundwater Basin : Rio Samala Basin ⑨-1 | | | | | | | | | | | |
| To.1 Totonican | Qp | 182.9 | 200 | 12.62 | 50.9 | 92.4 | 25.18 | | | | |
| Qu.1 Quetzaltenango Lianos Pinal 1 | | 134.1 | 150 | 12.62 | 79.6 | 84.4 | 227.16 | | | | |
| " Lianos Pinal 2 | | 91.4 | 150 | 12.62 | 39.6 | 41.4 | 726.91 | | | | |
| " El Chirriez | | | | 30.28 | | | | | | | |
| " El Chirriez | | | | 29.65 | | | | | | | |
| " El Chirriez | | | | 3.47 | | | | | | | |
| " El Chirriez | | | 6.94 | | | | | | | | |
| Groundwater Basin : Rio Samala Basin ⑨-1 | | | | | | | | | | | |
| To.2 San Cristobal Totonican | ? | 48.8 | 150 | | | 18.3 | | | | | |
| To.4 San Andres Xecul | | 122.0 | | | | 36.6 | | | | | |

Table (6) Existing Well Record (6)

| Location of Well | Aquifer | Drilled Depth (m) | Diameter (mm) | Discharge (Q=Q/s) | S.W.L (GL-m) | D.W.L (GL-m) | Sc (Q/s) (m ³ /d/m) | T (m ³ /d) | PH | Ec (µs/cm) | Remarks |
|--|---------|-------------------|---------------|-------------------|--------------|--------------|--------------------------------|-----------------------|-----|------------|--------------|
| Groundwater Basin : Rio Samala Basin ⑨-2 | | | | | | | | | | | |
| Qu.1 Quetzaltenango El Chirriez | Qp | | | 68.81 | | | | | | | |
| " | | | | 13.56 | | | | | | | |
| " | | | | 22.71 | | | | | | | |
| " | | | | 11.04 | | | | | | | |
| " | | | | 12.62 | | | | | | | |
| " | | | | 29.02 | | | | | | | |
| " | | | | 14.19 | | | | | | | |
| " | | | | 12.62 | | | | | | | |
| " | | | | 11.04 | | | | | | | |
| " | | | | 16.40 | | | | | | | |
| " | | | | 8.07 | | | | | | | |
| " | | | | 22.71 | | | | | | | |
| " | | | | 22.71 | | | | | | | |
| " | | | | 20.63 | | | | | | | |
| " | | | | 22.08 | | | | | | | |
| " | | | | 29.02 | | | | | | | |
| " | | | | 37.85 | | | | | | | |
| " | | | | 12.62 | | | | | | | |
| " | | | | 9.46 | | | | | | | |
| Qu.2 Salcaja 1 | | 38.1 | 150 | 31.54 | | 12.2 | | | | | |
| " 2 | | 121.9 | 150 | 37.79 | 7.0 | 25.3 | 178.42 | | | | |
| " | | 128.0 | 200 | 49.99 | 2.4 | 8.5 | 708.05 | | | | |
| Qu.3 Olintepeque | | 140.2 | 200 | 10.54 | 11.9 | 21.3 | 96.88 | | 6.5 | 207 | |
| Qu.13 Almolonga 1 | | | | 29.33 | | | | | | | Present Data |
| " 2 | | 76.2 | | | 38.4 | 44.5 | 414.43 | | | | Initial Data |
| " 3 | | | | 7.57 | | | | | | | |
| " | | | | 3.15 | 47.2 | 50.3 | 87.79 | | | | Present Data |
| " | | 160.7 | 250 | 1.89 | 47.2 | 50.3 | 56.67 | | | | Initial Data |

D-00019 (3)

Table (7) Existing Well Record (7)

[illegible]



