

Table A.4.1. Biofuel projections: Ethanol

|                                     | PRODUCTION (Mn l)  |                | Growth (%) <sup>1</sup> | DOMESTIC USE (Mn l) |                | Growth (%) <sup>1</sup> | FUEL USE (Mn l)    |                | Growth (%) <sup>1</sup> | SHARE IN GAZOLINE TYPE FUEL USE (%) |             |                    |             | NET TRADE (Mn l) <sup>2</sup> |               |
|-------------------------------------|--------------------|----------------|-------------------------|---------------------|----------------|-------------------------|--------------------|----------------|-------------------------|-------------------------------------|-------------|--------------------|-------------|-------------------------------|---------------|
|                                     | Average 2010-12est | 2022           | 2013-22                 | Average 2010-12est  | 2022           | 2013-22                 | Average 2010-12est | 2022           | 2013-22                 | Energy Shares                       |             | Volume Shares      |             | Average 2010-12est            | 2022          |
|                                     |                    |                |                         |                     |                |                         |                    |                |                         | Average 2010-12est                  | 2022        | Average 2010-12est | 2022        |                               |               |
| <b>NORTH AMERICA</b>                |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| Canada                              | 1 572              | 1 474          | -0.85                   | 1 920               | 2 202          | 0.20                    | 1 920              | 2 202          | 0.20                    | 3.2                                 | 3.5         | 4.7                | 5.1         | -349                          | -729          |
| United States                       | 47 906             | 79 997         | 3.79                    | 46 383              | 87 773         | 4.39                    | 44 216             | 85 393         | 4.51                    | 5.8                                 | 10.9        | 8.4                | 15.5        | 1 624                         | -7 874        |
| of which second generation          | 37                 | 16 353         | ..                      | ..                  | ..             | ..                      | ..                 | ..             | ..                      | ..                                  | ..          | ..                 | ..          | ..                            | ..            |
| <b>EUROPE</b>                       |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| European Union                      | 6 554              | 12 261         | 6.76                    | 8 243               | 16 098         | 7.18                    | 5 683              | 13 803         | 8.99                    | 3.1                                 | 8.1         | 4.5                | 11.7        | -1 689                        | -3 837        |
| of which second generation          | 42                 | 425            | ..                      | ..                  | ..             | ..                      | ..                 | ..             | ..                      | ..                                  | ..          | ..                 | ..          | ..                            | ..            |
| <b>OCEANIA DEVELOPED</b>            |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| Australia                           | 349                | 427            | -0.71                   | 372                 | 453            | -0.67                   | 372                | 453            | -0.67                   | 1.3                                 | 1.6         | 2.0                | 2.4         | -23                           | -26           |
| <b>OTHER DEVELOPED</b>              |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| Japan                               | 101                | 101            | 0.15                    | 950                 | 1 551          | 4.61                    | 350                | 966            | 8.84                    | 0.0                                 | 0.0         | 0.0                | 0.0         | -877                          | -1 450        |
| of which second generation          | 79                 | 78             | ..                      | ..                  | ..             | ..                      | ..                 | ..             | ..                      | ..                                  | ..          | ..                 | ..          | ..                            | ..            |
| South Africa                        | 367                | 319            | -1.19                   | 190                 | 199            | 0.08                    | 4                  | 6              | 1.02                    | ..                                  | ..          | ..                 | ..          | 177                           | 121           |
| <b>SUB-SAHARIAN AFRICA</b>          |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| Mozambique                          | 36                 | 72             | 6.94                    | 34                  | 45             | 2.35                    | 2                  | 15             | 8.60                    | ..                                  | ..          | ..                 | ..          | 2                             | 27            |
| Tanzania                            | 34                 | 42             | 2.92                    | 43                  | 50             | 2.89                    | 3                  | 19             | 9.69                    | ..                                  | ..          | ..                 | ..          | -9                            | -8            |
| <b>LATIN AMERICA AND CARRIBBEAN</b> |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| Argentina                           | 355                | 1 015          | 8.04                    | 512                 | 1 154          | 7.62                    | 344                | 980            | 9.76                    | 3.4                                 | 6.6         | 5.0                | 9.6         | -157                          | -139          |
| Brazil                              | 25 373             | 47 376         | 5.10                    | 23 549              | 35 558         | 4.23                    | 21 886             | 33 642         | 4.45                    | 46.4                                | 56.8        | 56.2               | 66.2        | 1 823                         | 11 818        |
| Columbia                            | 352                | 598            | 3.63                    | 409                 | 603            | 2.55                    | 342                | 539            | 2.89                    | ..                                  | ..          | ..                 | ..          | -58                           | -5            |
| Mexico                              | 210                | 252            | 0.99                    | 342                 | 404            | 0.99                    | 0                  | 0              | ..                      | 0.0                                 | 0.0         | 0.0                | 0.0         | -132                          | -151          |
| Peru                                | 181                | 402            | 3.15                    | 90                  | 193            | 2.99                    | 70                 | 173            | 3.35                    | ..                                  | ..          | ..                 | ..          | 90                            | 209           |
| <b>ASIA AND PACIFIC</b>             |                    |                |                         |                     |                |                         |                    |                |                         |                                     |             |                    |             |                               |               |
| China                               | 8 643              | 10 531         | 1.83                    | 8 566               | 10 090         | 0.96                    | 2 133              | 3 890          | 3.72                    | 1.5                                 | 1.8         | 2.2                | 2.7         | 77                            | 441           |
| India                               | 2 258              | 2 971          | 2.41                    | 2 294               | 3 057          | 2.62                    | 262                | 964            | 11.65                   | ..                                  | ..          | ..                 | ..          | -36                           | -86           |
| Indonesia                           | 193                | 260            | 2.96                    | 156                 | 225            | 2.26                    | 31                 | 95             | 6.08                    | ..                                  | ..          | ..                 | ..          | 38                            | 35            |
| Malaysia                            | 89                 | 96             | 0.16                    | 91                  | 96             | 0.11                    | 0                  | 0              | 4.93                    | ..                                  | ..          | ..                 | ..          | -2                            | -1            |
| Philippines                         | 129                | 269            | 5.57                    | 425                 | 547            | 0.68                    | 230                | 362            | 1.00                    | ..                                  | ..          | ..                 | ..          | -297                          | -279          |
| Thailand                            | 781                | 1 461          | 4.28                    | 640                 | 958            | 3.83                    | 461                | 783            | 4.90                    | ..                                  | ..          | ..                 | ..          | 141                           | 502           |
| Turkey                              | 84                 | 130            | 3.37                    | 123                 | 143            | 1.29                    | 50                 | 68             | 2.78                    | ..                                  | ..          | ..                 | ..          | -39                           | -13           |
| Viet Nam                            | 345                | 690            | 2.77                    | 257                 | 437            | 2.12                    | 94                 | 264            | 3.72                    | ..                                  | ..          | ..                 | ..          | 88                            | 253           |
| <b>TOTAL</b>                        | <b>100 130</b>     | <b>167 391</b> | <b>4.10</b>             | <b>99 776</b>       | <b>167 293</b> | <b>4.12</b>             | <b>79 051</b>      | <b>145 202</b> | <b>4.77</b>             | <b>6.2</b>                          | <b>10.7</b> | <b>9.0</b>         | <b>15.2</b> | <b>3 749</b>                  | <b>12 259</b> |

Note: .. : Not available.

Average 2010-12est: Data for 2012 are estimated.

1. Least-squares growth rate (see glossary).

2. For total net trade exports are shown.

Source: OECD and FAO Secretariats.