

| Management packages |                  |                     | Nitrogen application rate |     |     |     |     |     |      |
|---------------------|------------------|---------------------|---------------------------|-----|-----|-----|-----|-----|------|
| Fertilizer form     | Tillage practice | Irrigation strategy | 25                        | 50  | 100 | 150 | 200 | 250 | 300  |
| Nitrate             | Conventional     | Full irrigation     | 108                       | 95  | 107 | 122 | 306 | 696 | 1095 |
| Nitrate             | Conventional     | Deficit irrigation  | 90                        | 82  | 97  | 138 | 436 | 865 | 1324 |
| Nitrate             | No-tillage       | Full irrigation     | 154                       | 136 | 161 | 199 | 294 | 621 | 1002 |
| Nitrate             | No-tillage       | Deficit irrigation  | 139                       | 130 | 154 | 203 | 383 | 781 | 1202 |
| Manure              | Conventional     | Full irrigation     | 100                       | 83  | 90  | 106 | 167 | 445 | 832  |
| Manure              | Conventional     | Deficit irrigation  | 91                        | 75  | 84  | 114 | 231 | 600 | 1028 |
| Manure              | No-tillage       | Full irrigation     | 148                       | 121 | 141 | 170 | 221 | 397 | 754  |
| Manure              | No-tillage       | Deficit irrigation  | 134                       | 114 | 126 | 168 | 261 | 534 | 927  |