# Supplementary data

Table S1. Wheat production across zones and special districts of Ethiopia showing yields averaged over 5 years.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Region | Zone or Special District | Area (ha) | Production  (tonne) | Yield  (tonne/ha) |
| Tigray | Central Tigray | 28342.36 | 51929.43 | 1.836 |
| East Tigray | 30069.07 | 49441.05 | 1.649 |
| South Tigray | 48741.79 | 94035.28 | 1.925 |
| Western Tigray | 1548.50 | 3753.15 | 2.339 |
| Amhara | North Gondar | 69279.72 | 154425.57 | 2.242 |
| South Gondar | 75812.31 | 139912.10 | 1.846 |
| North Wello | 31042.18 | 49656.68 | 1.575 |
| South Wello | 91769.20 | 169960.42 | 1.824 |
| North Shewa | 74730.01 | 163483.10 | 2.146 |
| East Gojam | 111071.79 | 241664.66 | 2.152 |
| West Gojam | 35046.85 | 76015.55 | 2.174 |
| Waghemra | 6694.67 | 8653.40 | 1.289 |
| Awi | 16689.76 | 34709.89 | 2.076 |
| Oromia Zone | 1472.88 | 2238.21 | 1.520 |
| Argoba Special | 14.26 | 20.35 | 1.353 |
| Oromia | West Wellega | 2903.51 | 4589.14 | 1.592 |
| East Wellega | 9212.07 | 16634.34 | 1.802 |
| Illu Ababora | 7427.88 | 14988.68 | 1.982 |
| Jimma | 35352.63 | 59014.22 | 1.662 |
| West Shewa | 54510.57 | 130932.76 | 2.395 |
| North Shewa | 67152.72 | 140356.67 | 2.091 |
| East Shewa | 68767.10 | 184578.93 | 2.725 |
| Arsi | 201042.02 | 576199.66 | 2.866 |
| West Harerge | 3607.94 | 6538.86 | 1.868 |
| East Harerge | 18381.07 | 36575.36 | 1.996 |
| Bale | 144442.39 | 391224.28 | 2.689 |
| Borena | 1211.00 | 2146.42 | 1.742 |
| South West Shewa | 59201.47 | 139357.66 | 2.442 |
| Guji | 5792.70 | 13881.06 | 2.393 |
| Kelem Wellega | 7693.93 | 13931.71 | 1.808 |
| Horoguduru | 117971.06 | 43199.43 | 2.017 |
| West Arsi | 117725.44 | 368223.25 | 3.127 |
| Somali | Jijiga | 4114.21 | 9468.78 | 2.302 |
| Benishangul-  Gumuz | Metekel | 1641.42 | 4311.41 | 1.697 |
| Mao Komo | 194.16 | 456.94 | 1.981 |

Table S1. Continued

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Region | Zone or Special District | Area (ha) | Production  (tonne) | Yield  (tonne/ha) |
| SNNP | Gurage | 15837.74 | 43918.64 | 2.229 |
| Hadiya | 36548.91 | 93320.75 | 2.549 |
| Kembata - Tembaro | 12450.87 | 29445.95 | 2.370 |
| Walayita | 2417.11 | 3898.52 | 1.603 |
| South Omo | 1118.98 | 1441.91 | 1.289 |
| Sheka | 209.76 | 219.82 | 1.048 |
| Keffa | 9248.76 | 15127.28 | 1.615 |
| Gamo Gofa | 8598.78 | 13122.18 | 1.553 |
| Benchi - Maji | 723.01 | 598.85 | 0.878 |
| Yem Special District | 5510.92 | 9418.76 | 1.706 |
| Amaro Special District | 562.06 | 451.02 | 0.802 |
| Burji Special District | 472.47 | 386.07 | 0.817 |
| Derashe Special District | 516.71 | 651.00 | 1.260 |
| Dawro | 2671.64 | 4927.55 | 1.807 |
| Konta Special District | 505.80 | 1132.25 | 2.286 |
| Siltie | 22948.13 | 64850.87 | 2.841 |
| Alaba Special District | 4067.05 | 9832.96 | 2.391 |
| Segen People’s Zone | 1818.06 | 2988.24 | 1.659 |
| Harari |  | 65.37 | 121.07 | 1.158 |

References

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Table S2. Passport data of durum accessions\* used in hydroponics screening for Al3+ tolerance

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 1 | 5180 | Oromia | East Shewa | Lome | 09-47-00-N | 39-16-00-E |
| 2 | 5314 | Oromia | East Shewa | Ada'a Chukala | 08-16-00-N | 38-52-00-E |
| 3 | 5325 | Oromia | Jimma | Mana | 07-38-00-N | 36-53-00-E |
| 4 | 5487 | Amhara | West Gojam | Dembecha | 10-42-00-N | 37-07-00-E |
| 5 | 5546 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 6 | 5632 | Tigray | Southern | Endamehoni | 12-47-00-N | 39-32-00-E |
| 7 | 5634 | Oromia | North Shewa | Berehna Aleltu | 09-02-00-N | 39-06-00-E |
| 8 | 5690 | Oromia | East Shewa | Ada'a Chukala | 08-54-00-N | 39-01-00-E |
| 9 | 6036 | Oromia | West Shewa | Dendi | 09-01-00-N | 38-20-00-E |
| 10 | 6856 | Amhara | North Gondar | Alefa | 11-58-00-N | 37-00-00-E |
| 11 | 6891 | Oromia | Bale | Ginir | 07-04-00-N | 40-47-00-E |
| 12 | 6956 | Amhara | East Gojam | Dejen | 10-17-00-N | 38-12-00-E |
| 13 | 7073 | Oromia | Arsi | Amigna | 07-42-00-N | 39-44-00-E |
| 14 | 7118 | Amhara | North Shewa | Moretna Jiru | 09-46-00-N | 39-10-00-E |
| 15 | 7176 | Oromia | West Shewa | Ambo |  |  |
| 16 | 7227 | SNNP | Gurage | Goro | 08-25-00-N | 37-55-00-E |
| 17 | 7301 | Amhara | South Gondar | Farta |  |  |
| 18 | 7345 | Oromia | East Harerge | Goro Gutu | 09-14-00-N | 41-09-00-E |
| 19 | 7499 | Amhara | North Wello | Wadla | 11-37-00-N | 38-55-00-E |
| 20 | 7529 | Amhara | South Wello | Legambo | 11-21-00-N | 39-18-00-E |
| 21 | 7925 | Oromia | North Shewa | Wuchalena Jido | 09-24-00-N | 38-53-00-E |
| 22 | 7960 | Amhara | North Shewa | Angolela Terana Asag | 09-39-00-N | 36-26-00-E |
| 23 | 7961 | Amhara | North Shewa | Angolela Terana Asag | 09-39-00-N | 39-20-00-E |
| 24 | 8051 | Oromia | North Shewa | Wara Jarso |  |  |
| 25 | 8214 | Amhara | North Shewa | Mafudmezezo Mojana | 09-51-00-N | 39-45-00-E |
| 26 | 8217 | Amhara | North Shewa | Mafudmezezo Mojana | 09-52-00-N | 39-48-00-E |
| 27 | 8254 | Amhara | South Wello | Dessie Zuria | 11-15-00-N | 39-34-00-E |
| 28 | 8279 | Amhara | North Shewa | Ankober | 09-34-00-N | 39-45-00-E |
| 29 | 8317 | SNNP | North Omo | Chencha | 06-18-00-N | 37-28-00-E |
| 30 | 8333 | Amhara | East Gojam | Enarj Enawga | 10-49-00-N | 38-05-00-E |
| 31 | 8356 | Amhara | East Gojam | Enemay | 10-20-00-N | 38-08-00-E |
| 32 | 8435 | SNNP | Bench Maji | Konso Special Wereda | 05-18-00-N | 37-18-00-E |
| 33 | 8436 | SNNP | Bench Maji | Konso Special Wereda | 05-18-00-N | 37-18-00-E |
| 34 | 203674 | Oromia | East Shewa | Ada'a Chukala | 08-52-00-N | 39-01-00-E |
| 35 | 203756 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 36 | 203760 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 37 | 203762 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 38 | 203764 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 39 | 203776 | Amhara | North Gondar | Gondar Zuria | 12-38-00-N | 37-28-00-E |
| 40 | 203855 | Oromia | East Harerge | Haromaya |  |  |
| 41 | 203922 | Amhara | West Gojam | Dembecha | 10-34-00-N | 37-29-00-E |
| 42 | 203996 | Amhara | North Shewa | Geramidirna Keya Geb | 10-18-00-N | 39-35-00-E |
| 43 | 204349 | Oromia | Bale | Sinanana Dinsho | 07-12-00-N | 39-56-00-E |
| 44 | 204357 | Oromia | Bale | Goba | 06-59-00-N | 40-01-00-E |
| 45 | 204392 | Oromia | Arsi | Tena | 07-46-00-N | 39-47-00-E |
| 46 | 204399 | Amhara | East Gojam | Enemay | 10-30-00-N | 38-24-00-E |
| 47 | 204411 | Oromia | Arsi | Merti | 08-30-00-N | 39-47-00-E |

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| --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 48 | 204417 | Oromia | Arsi | Chole | 08-23-00-N | 39-56-00-E |
| 49 | 204482 | Oromia | North Shewa | Kembibit | 09-19-00-N | 39-16-00-E |
| 50 | 204483 | Oromia | North Shewa | Kembibit | 09-24-00-N | 39-16-00-E |
| 51 | 204484 | Oromia | North Shewa | Kembibit | 09-24-00-N | 39-16-00-E |
| 52 | 204485 | Oromia | North Shewa | Kembibit | 09-24-00-N | 39-16-00-E |
| 53 | 204488 | Oromia | North Shewa | Kembibit | 09-27-00-N | 39-15-00-E |
| 54 | 204493 | Oromia | North Shewa | Kembibit | 09-27-00-N | 39-15-00-E |
| 55 | 204495 | Oromia | North Shewa | Kembibit | 09-27-00-N | 39-15-00-E |
| 56 | 204519 | Oromia | North Shewa | Gerar Jarso | 09-44-00-N | 38-43-00-E |
| 57 | 204520 | Oromia | North Shewa | Gerar Jarso | 09-44-00-N | 38-43-00-E |
| 58 | 204525 | Oromia | North Shewa | Gerar Jarso |  |  |
| 59 | 204530 | Oromia | North Shewa | Wuchalena Jido | 09-36-00-N | 38-49-00-E |
| 60 | 204536 | Oromia | West Shewa | Alem Gena | 09-07-00-N | 38-36-00-E |
| 61 | 204544 | Oromia | West Shewa | Dendi | 09-22-00-N | 38-03-00-E |
| 62 | 204555 | Oromia | North Shewa | Berehna Aleltu | 08-58-00-N | 38-59-00-E |
| 63 | 204560 | Oromia | North Shewa | Berehna Aleltu | 08-56-00-N | 38-59-00-E |
| 64 | 204562 | Oromia | North Shewa | Berehna Aleltu | 08-56-00-N | 38-59-00-E |
| 65 | 204563 | Oromia | North Shewa | Berehna Aleltu | 08-56-00-N | 38-59-00-E |
| 66 | 204564 | Oromia | North Shewa | Berehna Aleltu | 08-56-00-N | 38-59-00-E |
| 67 | 204566 | Oromia | East Shewa | Akaki | 09-01-00-N | 38-08-00-E |
| 68 | 206526 | Amhara | South Gondar | Ebenat |  |  |
| 69 | 206531 | Tigray | Eastern | Gulomahda |  |  |
| 70 | 206554 | Tigray | Southern | Enderta |  |  |
| 71 | 206567 | Amhara | South Gondar | Lay Gayint |  |  |
| 72 | 206576 | Amhara | South Gondar | Lay Gayint |  |  |
| 73 | 206690 | Amhara | South Gondar | Simada |  |  |
| 74 | 206700 | Amhara | South Gondar | Tach Gayint |  |  |
| 75 | 208136 | Amhara | East Gojam | Enarj Enawga |  |  |
| 76 | 208145 | Amhara | East Gojam | Enarj Enawga |  |  |
| 77 | 208146 | Amhara | East Gojam | Enarj Enawga |  |  |
| 78 | 208149 | Amhara | East Gojam | Enarj Enawga |  |  |
| 79 | 208150 | Amhara | East Gojam | Enarj Enawga |  |  |
| 80 | 208151 | Amhara | East Gojam | Enarj Enawga |  |  |
| 81 | 208152 | Amhara | East Gojam | Enarj Enawga |  |  |
| 82 | 208155 | Amhara | East Gojam | Enarj Enawga |  |  |
| 83 | 208156 | Amhara | East Gojam | Enarj Enawga |  |  |
| 84 | 208161 | Amhara | East Gojam | Enarj Enawga |  |  |
| 85 | 208162 | Amhara | East Gojam | Enarj Enawga |  |  |
| 86 | 208165 | Amhara | East Gojam | Enarj Enawga |  |  |
| 87 | 208167 | Amhara | East Gojam | Enarj Enawga |  |  |
| 88 | 208168 | Amhara | East Gojam | Enarj Enawga |  |  |
| 89 | 208169 | Amhara | East Gojam | Enarj Enawga |  |  |
| 90 | 208170 | Amhara | East Gojam | Enarj Enawga |  |  |
| 91 | 208171 | Amhara | East Gojam | Enarj Enawga |  |  |
| 92 | 208172 | Amhara | East Gojam | Enarj Enawga |  |  |
| 93 | 208173 | Amhara | East Gojam | Enarj Enawga |  |  |
| 94 | 208175 | Amhara | East Gojam | Enarj Enawga |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 95 | 208184 | Amhara | East Gojam | Enarj Enawga |  |  |
| 96 | 208186 | Amhara | East Gojam | Enarj Enawga |  |  |
| 97 | 208188 | Amhara | East Gojam | Enarj Enawga |  |  |
| 98 | 208190 | Amhara | East Gojam | Enarj Enawga |  |  |
| 99 | 208192 | Amhara | East Gojam | Enarj Enawga |  |  |
| 100 | 208194 | Amhara | East Gojam | Enarj Enawga |  |  |
| 101 | 208196 | Amhara | East Gojam | Enarj Enawga |  |  |
| 102 | 208203 | Amhara | East Gojam | Enarj Enawga |  |  |
| 103 | 208206 | Amhara | West Gojam | Bure Wemberma |  |  |
| 104 | 208207 | Amhara | West Gojam | Bure Wemberma |  |  |
| 105 | 208208 | Amhara | West Gojam | Bure Wemberma |  |  |
| 106 | 208209 | Amhara | West Gojam | Bure Wemberma |  |  |
| 107 | 208210 | Amhara | West Gojam | Bure Wemberma |  |  |
| 108 | 208211 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 109 | 208212 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 110 | 208214 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 111 | 208215 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 112 | 208218 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 113 | 208220 | Amhara | East Gojam | Debre Markos |  |  |
| 114 | 208222 | Amhara | East Gojam | Debre Markos |  |  |
| 115 | 208223 | Amhara | East Gojam | Debre Markos |  |  |
| 116 | 208224 | Amhara | East Gojam | Debre Markos |  |  |
| 117 | 208225 | Amhara | East Gojam | Debre Markos |  |  |
| 118 | 208228 | Amhara | East Gojam | Debre Markos |  |  |
| 119 | 208229 | Amhara | East Gojam | Debre Markos |  |  |
| 120 | 208230 | Amhara | East Gojam | Debre Markos |  |  |
| 121 | 208233 | Amhara | East Gojam | Awabel |  |  |
| 122 | 208234 | Amhara | East Gojam | Awabel |  |  |
| 123 | 208237 | Amhara | East Gojam | Awabel |  |  |
| 124 | 208238 | Amhara | East Gojam | Awabel |  |  |
| 125 | 208239 | Amhara | East Gojam | Awabel |  |  |
| 126 | 208240 | Amhara | East Gojam | Awabel |  |  |
| 127 | 208241 | Amhara | East Gojam | Awabel |  |  |
| 128 | 208242 | Amhara | East Gojam | Awabel |  |  |
| 129 | 208243 | Amhara | East Gojam | Awabel |  |  |
| 130 | 208244 | Amhara | East Gojam | Awabel |  |  |
| 131 | 208248 | Oromia | North Shewa | Wara Jarso |  |  |
| 132 | 208250 | Oromia | North Shewa | Wara Jarso |  |  |
| 133 | 208251 | Oromia | North Shewa | Wara Jarso |  |  |
| 134 | 208252 | Oromia | North Shewa | Wara Jarso |  |  |
| 135 | 208253 | Oromia | North Shewa | Wara Jarso |  |  |
| 136 | 208254 | Oromia | North Shewa | Wara Jarso |  |  |
| 137 | 208258 | Oromia | North Shewa | Kuyu |  |  |
| 138 | 208260 | Oromia | North Shewa | Kuyu |  |  |
| 139 | 208264 | Oromia | North Shewa | Kuyu |  |  |
| 140 | 208265 | Oromia | North Shewa | Kuyu |  |  |
| 141 | 208267 | Oromia | North Shewa | Degem |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 142 | 208270 | Oromia | North Shewa | Degem |  |  |
| 143 | 208271 | Oromia | North Shewa | Degem |  |  |
| 144 | 208273 | Oromia | North Shewa | Degem |  |  |
| 145 | 208276 | Oromia | North Shewa | Degem |  |  |
| 146 | 208277 | Oromia | North Shewa | Degem |  |  |
| 147 | 208278 | Oromia | North Shewa | Degem |  |  |
| 148 | 208279 | Oromia | North Shewa | Degem |  |  |
| 149 | 208280 | Oromia | North Shewa | Degem |  |  |
| 150 | 208281 | Oromia | North Shewa | Degem |  |  |
| 151 | 208282 | Oromia | North Shewa | Degem |  |  |
| 152 | 208283 | Oromia | North Shewa | Degem |  |  |
| 153 | 208285 | Oromia | North Shewa | Degem |  |  |
| 154 | 208286 | Oromia | North Shewa | Degem |  |  |
| 155 | 208287 | Oromia | North Shewa | Degem |  |  |
| 156 | 208288 | Oromia | North Shewa | Degem |  |  |
| 157 | 208289 | Oromia | North Shewa | Degem |  |  |
| 158 | 208290 | Oromia | North Shewa | Degem |  |  |
| 159 | 208292 | Oromia | North Shewa | Degem |  |  |
| 160 | 208293 | Oromia | North Shewa | Degem |  |  |
| 161 | 208294 | Oromia | North Shewa | Degem |  |  |
| 162 | 208307 | Oromia | North Shewa | Gerar Jarso |  |  |
| 163 | 208308 | Oromia | North Shewa | Gerar Jarso |  |  |
| 164 | 208309 | Oromia | North Shewa | Gerar Jarso |  |  |
| 165 | 208310 | Oromia | North Shewa | Gerar Jarso |  |  |
| 166 | 208311 | Oromia | North Shewa | Gerar Jarso |  |  |
| 167 | 208312 | Oromia | North Shewa | Gerar Jarso |  |  |
| 168 | 208314 | Oromia | North Shewa | Gerar Jarso |  |  |
| 169 | 208315 | Oromia | North Shewa | Gerar Jarso |  |  |
| 170 | 208316 | Oromia | North Shewa | Gerar Jarso |  |  |
| 171 | 208317 | Oromia | North Shewa | Gerar Jarso |  |  |
| 172 | 208318 | Oromia | North Shewa | Gerar Jarso |  |  |
| 173 | 208319 | Oromia | North Shewa | Gerar Jarso |  |  |
| 174 | 208320 | Oromia | North Shewa | Gerar Jarso |  |  |
| 175 | 208321 | Oromia | North Shewa | Gerar Jarso |  |  |
| 176 | 208323 | Oromia | North Shewa | Gerar Jarso |  |  |
| 177 | 208324 | Oromia | North Shewa | Gerar Jarso |  |  |
| 178 | 208327 | Oromia | North Shewa | Mulona Sululta |  |  |
| 179 | 208331 | Oromia | North Shewa | Mulona Sululta |  |  |
| 180 | 208332 | Oromia | North Shewa | Mulona Sululta |  |  |
| 181 | 208333 | Oromia | North Shewa | Mulona Sululta |  |  |
| 182 | 208334 | Oromia | North Shewa | Mulona Sululta |  |  |
| 183 | 208336 | Oromia | North Shewa | Mulona Sululta |  |  |
| 184 | 208474 | Oromia | East Shewa | Lome |  |  |
| 185 | 208478 | Oromia | East Shewa | Lome |  |  |
| 186 | 208481 | Amhara | North Shewa | Minjarna Shenkora |  |  |
| 187 | 208488 | Oromia | North Shewa | Gerar Jarso |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 188 | 208491 | Oromia | North Shewa | Gerar Jarso |  |  |
| 189 | 208746 | Oromia | West Wellega | Sayo |  |  |
| 190 | 208780 | Oromia | East Shewa | Ada'a Chukala |  |  |
| 191 | 208783 | Oromia | East Shewa | Ada'a Chukala |  |  |
| 192 | 208873 | SNNP | Kembata Alabana Tembaro | Angacha | 07-20-00-N | 37-42-00-E |
| 193 | 208931 | Oromia | West Shewa | Ambo | 09-03-00-N | 37-56-00-E |
| 194 | 210795 | Oromia | West Shewa | Meta Robi |  |  |
| 195 | 210796 | Oromia | West Shewa | Meta Robi |  |  |
| 196 | 210797 | Oromia | West Shewa | Meta Robi |  |  |
| 197 | 210801 | Oromia | West Shewa | Meta Robi |  |  |
| 198 | 210803 | Oromia | West Shewa | Meta Robi |  |  |
| 199 | 210805 | Oromia | East Shewa | Gimbichu |  |  |
| 200 | 210806 | Oromia | East Shewa | Gimbichu |  |  |
| 201 | 210807 | Oromia | East Shewa | Gimbichu |  |  |
| 202 | 210808 | Oromia | East Shewa | Gimbichu |  |  |
| 203 | 210809 | Oromia | East Shewa | Gimbichu |  |  |
| 204 | 210810 | Oromia | East Shewa | Gimbichu |  |  |
| 205 | 210812 | Amhara | East Gojam | Dejen |  |  |
| 206 | 210813 | Amhara | East Gojam | Dejen |  |  |
| 207 | 210815 | Amhara | East Gojam | Dejen |  |  |
| 208 | 210816 | Amhara | East Gojam | Dejen |  |  |
| 209 | 210818 | Amhara | East Gojam | Dejen |  |  |
| 210 | 210820 | Amhara | East Gojam | Enemay |  |  |
| 211 | 210821 | Amhara | East Gojam | Dejen |  |  |
| 212 | 210823 | Amhara | East Gojam | Dejen |  |  |
| 213 | 210824 | Amhara | East Gojam | Dejen |  |  |
| 214 | 210825 | Amhara | East Gojam | Dejen |  |  |
| 215 | 210826 | Amhara | East Gojam | Dejen |  |  |
| 216 | 211487 | SNNP | Bench Maji | Konso Special Wereda | 05-19-00-N | 37-23-00-E |
| 217 | 212561 | Amhara | North Shewa | Weremo Wajetuna Mid | 10-25-00-N | 39-16-00-E |
| 218 | 213207 | Oromia | Jimma | Tiro Afeta |  |  |
| 219 | 214307 | Oromia | East Shewa | Ada'a Chukala | 08-50-00-N | 39-01-00-E |
| 220 | 214308 | Oromia | East Shewa | Ada'a Chukala | 08-50-00-N | 39-01-00-E |
| 221 | 214309 | Oromia | Bale | Goba | 07-00-00-N | 39-58-00-E |
| 222 | 214315 | Amhara | West Gojam | Bahir Dar Special Wereda |  |  |
| 223 | 214320 | Oromia | East Harerge | Kurfa Chele | 09-15-00-N | 41-53-00-E |
| 224 | 214333 | Oromia | North Shewa | Berehna Aleltu | 09-03-00-N | 39-04-00-E |
| 225 | 214352 | Oromia | West Shewa | Meta Robi | 09-19-00-N | 39-17-00-E |
| 226 | 214353 | Oromia | West Shewa | Meta Robi | 09-19-00-N | 39-17-00-E |
| 227 | 214356 | Oromia | North Shewa | Berehna Aleltu | 09-11-00-N | 39-04-00-E |
| 228 | 214357 | Oromia | North Shewa | Berehna Aleltu | 09-11-00-N | 39-04-00-E |
| 229 | 214373 | Oromia | East Shewa | Ada'a Chukala | 08-49-00-N | 38-57-00-E |

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| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 230 | 214375 | Amhara | North Shewa | Mafudmezezo Mojana | 09-58-00-N | 39-37-00-E |
| 231 | 214377 | Oromia | West Shewa | Dendi | 09-01-00-N | 38-20-00-E |
| 232 | 214472 | Oromia | North Shewa | Welmera | 09-11-00-N | 38-45-00-E |
| 233 | 214502 | Oromia | West Harerge | Chiro |  |  |
| 234 | 214515 | Amhara | East Gojam | Hulet Ej Enese | 10-48-00-N | 38-03-00-E |
| 235 | 214516 | Amhara | East Gojam | Hulet Ej Enese | 10-48-00-N | 38-03-00-E |
| 236 | 214517 | Amhara | East Gojam | Hulet Ej Enese | 10-48-00-N | 38-03-00-E |
| 237 | 214535 | Oromia | East Shewa | Ada'a Chukala |  |  |
| 238 | 214557 | Amhara | South Wello | Dessie Zuria | 11-12-00-N | 39-36-00-E |
| 239 | 214571 | Amhara | East Gojam | Dejen | 10-13-00-N | 38-02-00-E |
| 240 | 214586 | Oromia | East Wellega | Jimma Arjo | 08-44-00-N | 36-29-00-E |
| 241 | 214587 | Oromia | East Wellega | Jimma Arjo | 08-44-00-N | 36-29-00-E |
| 242 | 214590 | Amhara | South Wello | Debresina | 10-47-00-N | 38-40-00-E |
| 243 | 214874 | Amhara | North Wello | Dawuntna Delant |  |  |
| 244 | 214881 | Amhara | South Wello | Debresina |  |  |
| 245 | 215276 | Amhara | North Shewa | Kewet | 09-57-00-N | 39-44-00-E |
| 246 | 215411 | Oromia | Bale | Sinanana Dinsho |  |  |
| 247 | 216468 | Amhara | South Gondar | Lay Gayint |  |  |
| 248 | 216470 | Amhara | South Gondar | Lay Gayint |  |  |
| 249 | 216474 | Amhara | South Gondar | Lay Gayint |  |  |
| 250 | 216590 | Amhara | South Gondar | Tach Gayint |  |  |
| 251 | 216602 | Amhara | South Gondar | Lay Gayint |  |  |
| 252 | 216603 | Amhara | South Gondar | Tach Gayint |  |  |
| 253 | 216604 | Amhara | South Gondar | Tach Gayint |  |  |
| 254 | 216607 | Amhara | South Gondar | Tach Gayint |  |  |
| 255 | 216609 | Amhara | South Gondar | Tach Gayint |  |  |
| 256 | 216611 | Amhara | South Gondar | Tach Gayint |  |  |
| 257 | 216614 | Amhara | South Gondar | Tach Gayint |  |  |
| 258 | 216651 | Oromia | East Shewa | Ada'a Chukala |  |  |
| 259 | 216663 | SNNP | Hadiya | Limo | 07-45-00-N | 37-45-00-E |
| 260 | 216664 | SNNP | Hadiya | Limo | 07-45-00-N | 37-45-00-E |
| 261 | 216665 | SNNP | Hadiya | Limo | 07-45-00-N | 37-45-00-E |
| 262 | 216668 | SNNP | Kembata Alabana Tembaro | Angacha | 07-20-00-N | 37-42-00-E |
| 263 | 222193 | SNNP | Hadiya | Soro | 07-26-00-N | 37-49-00-E |
| 264 | 222297 | Amhara | North Gondar | Debark | 13-10-00-N | 37-52-00-E |
| 265 | 222322 | Oromia | Bale | Gaserana  Gololcha | 07-26-00-N | 40-32-00-E |
| 266 | 222326 | Oromia | Bale | Gaserana Gololcha | 07-42-00-N | 40-41-00-E |
| 267 | 222327 | Oromia | Bale | Gaserana Gololcha | 07-42-00-N | 40-41-00-E |
| 268 | 222342 | Oromia | Bale | Goba | 07-01-00-N | 39-56-00-E |
| 269 | 222346 | Amhara | Agew Awi | Banja | 10-59-00-N | 36-55-00-E |
| 270 | 222347 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 271 | 222348 | Amhara | West Gojam | Jabi Tehnan |  |  |
| 272 | 222352 | Amhara | West Gojam | Bure Wemberma | 10-56-00-N | 35-20-00-E |

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| SN | Accession | | Region | | | Zone | | District | Latitude | | Longitude | |
| 273 | 222353 | | Benishangul  Gumuz | | | Metekel | | Dangur |  | |  | |
| 274 | 222354 | | Benishangul  Gumuz | | | Metekel | | Dangur |  | |  | |
| 275 | 222358 | | Amhara | | | East Gojam | | Enemay | 10-29-00-N | | 38-11-00-E | |
| 276 | 222359 | | Amhara | | | East Gojam | | Enarj Enawga | 10-39-00-N | | 38-10-00-E | |
| 277 | 222360 | | Amhara | | | East Gojam | | Enarj Enawga | 10-39-00-N | | 38-10-00-E | |
| 278 | 222362 | | Amhara | | | East Gojam | | Enemay | 10-25-00-N | | 38-12-00-E | |
| 279 | 222366 | | Amhara | | | East Gojam | | Enemay | 10-25-00-N | | 38-17-00-E | |
| 280 | 222370 | | Amhara | | | East Gojam | | Enarj Enawga | 10-34-00-N | | 38-14-00-E | |
| 281 | 222371 | | Oromia | | | Arsi | | Merti | 08-34-00-N | | 39-52-00-E | |
| 282 | 222372 | | Oromia | | | Arsi | | Merti | 08-34-00-N | | 39-52-00-E | |
| 283 | 222382 | | Oromia | | | Arsi | | Chole | 08-09-00-N | | 39-54-00-E | |
| 284 | 222387 | | Oromia | | | Arsi | | Amigna | 07-40-00-N | | 39-56-00-E | |
| 285 | 222402 | | Oromia | | | Arsi | | Jeju | 08-05-00-N | | 39-38-00-E | |
| 286 | 222404 | | Oromia | | | Arsi | | Jeju | 08-04-00-N | | 39-43-00-E | |
| 287 | 222414 | | Oromia | | | Arsi | | Robe | 07-45-00-N | | 39-40-00-E | |
| 288 | 222415 | | Oromia | | | Arsi | | Robe | 07-45-00-N | | 39-40-00-E | |
| 289 | 222418 | | Oromia | | | Arsi | | Robe | 07-42-00-N | | 39-44-00-E | |
| 290 | 222421 | | Oromia | | | Arsi | | Robe | 07-42-00-N | | 39-44-00-E | |
| 291 | 222431 | | Oromia | | | Arsi | | Robe | 07-31-00-N | | 40-03-00-E | |
| 292 | 222433 | | Oromia | | | Arsi | | Seru | 07-30-00-N | | 40-05-00-E | |
| 293 | 222434 | | Oromia | | | Arsi | | Seru | 07-30-00-N | | 40-05-00-E | |
| 294 | 222453 | | Oromia | | | North Shewa | | Mulona Sululta | 09-22-00-N | | 38-30-00-E | |
| 295 | 222457 | | Oromia | | | West Shewa | | Dendi |  | |  | |
| 296 | 222462 | | Oromia | | | West Shewa | | Dendi | 09-22-00-N | | 38-03-00-E | |
| 297 | 222464 | | Oromia | | | West Shewa | | Dendi | 09-22-00-N | | 38-03-00-E | |
| 298 | 222465 | | Oromia | | | West Shewa | | Dendi | 09-22-00-N | | 38-03-00-E | |
| 299 | 222469 | | Oromia | | | West Shewa | | Ambo | 08-58-00-N | | 38-00-00-E | |
| 300 | 222474 | | Oromia | | | East Wellega | | Limu | 09-55-00-N | | 36-37-00-E | |
| 301 | 222503 | | Amhara | | | North Gondar | | Gondar Zuria | 13-04-00-N | | 37-48-00-E | |
| 302 | 222508 | | Amhara | | | North Gondar | | Dabat | 12-58-00-N | | 37-45-00-E | |
| 303 | 222514 | | Amhara | | | North Gondar | | Wegera | 12-52-00-N | | 37-44-00-E | |
| 304 | 222515 | | Amhara | | | North Gondar | | Wegera | 12-52-00-N | | 37-44-00-E | |
| 305 | 222533 | | Amhara | | | North Gondar | | Gondar Zuria | 12-33-00-N | | 37-24-00-E | |
| 306 | 222554 | | Oromia | | | Arsi | | Sherka | 07-38-00-N | | 39-30-00-E | |
| 307 | 222561 | | Oromia | | | West Harerge | | Chiro |  | |  | |
| 308 | 222568 | | Oromia | | | West Harerge | | Tulo | 09-13-00-N | | 41-07-00-E | |
| 309 | 222574 | | Oromia | | | East Harerge | | Deder | 09-22-00-N | | 41-28-20-E | |
| 310 | 222578 | | Oromia | | | East Harerge | | Kersa | 09-28-00-N | | 41-48-00-E | |
| 311 | 222589 | | Amhara | | | South Wello | | Kalu | 11-02-00-N | | 39-45-00-E | |
| 312 | 222608 | | Amhara | | | South Gondar | | Lay Gayint | 11-39-00-N | | 38-27-00-E | |
| 313 | 222613 | | Amhara | | | South Gondar | | Lay Gayint | 11-39-00-N | | 38-27-00-E | |
| 314 | 222619 | | Amhara | | | South Gondar | | Lay Gayint | 11-38-00-N | | 38-32-00-E | |
| 315 | 222627 | | Amhara | | | South Gondar | | Lay Gayint | 11-38-00-N | | 38-28-00-E | |
| 316 | 222629 | | Amhara | | | South Gondar | | Lay Gayint | 11-38-00-N | | 38-28-00-E | |
| 317 | 222632 | | Amhara | | | South Gondar | | Tach Gayint | 11-36-00-N | | 38-33-00-E | |
| SN | | Accession | | Region | Zone | | District | | | Latitude | | Longitude | |
| 318 | | 222637 | | Amhara | South Gondar | | Tach Gayint | | | 11-38-00-N | | 38-34-00-E | |
| 319 | | 222644 | | Amhara | South Gondar | | Lay Gayint | | | 11-44-00-N | | 38-25-00-E | |
| 320 | | 222682 | | Amhara | South Wello | | Dessie Zuria | | | 11-15-00-N | | 39-34-00-E | |
| 321 | | 222684 | | Amhara | North Wello | | Wadla | | | 11-32-00-N | | 39-05-00-E | |
| 322 | | 222687 | | Amhara | North Wello | | Wadla | | | 11-32-00-N | | 39-05-00-E | |
| 323 | | 222708 | | Oromia | East Harerge | | Goro Gutu | | | 09-18-00-N | | 41-14-00-E | |
| 324 | | 222732 | | Amhara | North Shewa | | Mafudmezezo  Mojana | | | 09-51-00-N | | 39-45-00-E | |
| 325 | | 222776 | | Oromia | East Shewa | | Ada'a Chukala | | |  | |  | |
| 326 | | 222779 | | SNNP | Kembata Alabana  Tembaro | | Angacha | | | 07-20-00-N | | 37-12-00-E | |
| 327 | | 222797 | | Oromia | Bale | | Goro | | | 06-58-00-N | | 40-32-00-E | |
| 328 | | 222810 | | Amhara | South Wello | | Were Ilu | | |  | |  | |
| 329 | | 222813 | | Amhara | South Wello | | Were Ilu | | |  | |  | |
| 330 | | 222834 | | Amhara | North Gondar | | Debark | | |  | |  | |
| 331 | | 222854 | | Amhara | South Wello | | Debresina | | |  | |  | |
| 332 | | 222859 | | Amhara | North Shewa | | Hageremariamina Kese | | |  | |  | |
| 333 | | 223257 | | Tigray | Southern | | Alaje | | | 17-41-00-S | | 39-28-00-E | |
| 334 | | 226093 | | Amhara | South Wello | | Debresina | | | 10-45-00-N | | 38-45-00-E | |
| 335 | | 226151 | | Oromia | Jimma | | Goma | | |  | |  | |
| 336 | | 226191 | | Oromia | West Harerge | | Kuni | | | 09-00-00-N | | 40-53-00-E | |
| 337 | | 226207 | | Amhara | North Gondar | | Gondar Zuria | | | 12-38-00-N | | 37-28-00-E | |
| 338 | | 226209 | | Amhara | South Gondar | | Fogera | | | 11-59-00-N | | 37-37-00-E | |
| 339 | | 226245 | | Tigray | Southern | | Enderta | | | 13-30-00-N | | 39-33-00-E | |
| 340 | | 226273 | | Oromia | Arsi | | Sherka | | | 07-37-00-N | | 39-29-00-E | |
| 341 | | 226279 | | Oromia | Arsi | | Sherka | | |  | |  | |
| 342 | | 226301 | | Oromia | West Shewa | | Jeldu | | | 09-22-00-N | | 38-03-00-E | |
| 343 | | 226302 | | Oromia | West Shewa | | Jeldu | | | 09-22-00-N | | 38-03-00-E | |
| 344 | | 226312 | | Amhara | North Shewa | | Debre Berhan Zuria | | | 09-38-00-N | | 39-35-00-E | |
| 345 | | 226327 | | SNNP | Hadiya | | Soro | | | 07-17-00-N | | 37-53-00-E | |
| 346 | | 226331 | | Amhara | North Shewa | | Mafudmezezo Mojana | | | 09-58-00-N | | 39-37-00-E | |
| 347 | | 226342 | | Oromia | East Shewa | | Ada'a Chukala | | | 08-32-00-N | | 38-52-00-E | |
| 348 | | 226345 | | SNNP | Kembata Alabana  Tembaro | | Angacha | | | 09-34-00-N | | 39-29-00-E | |
| 349 | | 226350 | | Oromia | Arsi | | Aseko | | | 08-22-00-N | | 39-57-00-E | |
| 350 | | 226351 | | Oromia | Arsi | | Aseko | | | 08-22-00-N | | 39-57-00-E | |
| 351 | | 226352 | | Oromia | Arsi | | Tena | | | 07-50-00-N | | 39-34-00-E | |
| 352 | | 226363 | | Oromia | Arsi | | Gedeb | | | 07-10-00-N | | 39-12-00-E | |
| 353 | | 226366 | | Oromia | Arsi | | Gedeb | | | 07-11-00-N | | 39-11-00-E | |
| 354 | | 226371 | | Oromia | West Shewa | | Ambo | | | 08-58-00-N | | 37-57-00-E | |
| 355 | | 226381 | | Oromia | North Shewa | | Wara Jarso | | | 09-57-00-N | | 38-18-00-E | |
| 356 | | 226383 | | Oromia | West Shewa | | Cheliya | | | 09-01-00-N | | 37-16-00-E | |
| 357 | | 226387 | | Amhara | North Shewa | | Lay Betna Tach Bet | | | 10-32-00-N | | 38-57-00-E | |
| 358 | | 226389 | | Oromia | West Shewa | | Alem Gena | | | 08-50-00-N | | 38-30-00-E | |
| 359 | | 226392 | | Oromia | West Shewa | | Alem Gena | | | 08-48-00-N | | 38-20-00-E | |
| 360 | | 226393 | | Oromia | East Shewa | | Akaki | | | 08-52-00-N | | 38-51-00-E | |
| 361 | | 226395 | | Oromia | West Shewa | | Alem Gena | | | 08-55-00-N | | 38-35-00-E | |

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| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 362 | 226807 | Amhara | North Gondar | Gondar Zuria | 12-45-00-N | 37-32-00-E |
| 363 | 226808 | Amhara | North Gondar | Gondar Zuria | 12-45-00-N | 37-32-00-E |
| 364 | 226809 | Amhara | North Gondar | Gondar Zuria | 12-45-00-N | 37-32-00-E |
| 365 | 226819 | Oromia | Bale | Goba | 06-59-00-N | 40-01-00-E |
| 366 | 226830 | Amhara | East Gojam | Dejen | 10-14-00-N | 38-03-00-E |
| 367 | 226834 | Amhara | East Gojam | Dejen | 10-21-00-N | 38-13-00-E |
| 368 | 226837 | Amhara | East Gojam | Enemay | 10-25-00-N | 38-12-00-E |
| 369 | 226840 | Amhara | East Gojam | Enemay | 10-30-00-N | 38-24-00-E |
| 370 | 226856 | Oromia | Arsi | Jeju | 08-03-00-N | 39-38-00-E |
| 371 | 226873 | Oromia | West Shewa | Meta Robi | 09-21-00-N | 39-17-00-E |
| 372 | 226874 | Oromia | West Shewa | Meta Robi | 09-21-00-N | 39-17-00-E |
| 373 | 226881 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 374 | 226882 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 375 | 226884 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 376 | 226885 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 377 | 226886 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 378 | 226887 | Oromia | West Shewa | Meta Robi | 09-27-00-N | 39-15-00-E |
| 379 | 226888 | Amhara | North Shewa | Moretna Jiru | 09-46-00-N | 39-10-00-E |
| 380 | 226894 | Oromia | North Shewa | Gerar Jarso | 09-44-00-N | 38-43-00-E |
| 381 | 226903 | Oromia | North Shewa | Berehna Aleltu | 09-01-00-N | 38-56-00-E |
| 382 | 226914 | Amhara | Agew Awi | Banja | 10-58-00-N | 36-55-00-E |
| 383 | 226922 | SNNP | North Omo | Boreda Abaya | 06-31-00-N | 37-45-00-E |
| 384 | 226951 | Amhara | South Gondar | Tach Gayint | 11-40-00-N | 38-20-00-E |
| 385 | 226954 | Amhara | South Gondar | Lay Gayint | 11-44-00-N | 38-25-00-E |
| 386 | 226958 | Amhara | North Gondar | Dabat | 12-55-00-N | 37-47-00-E |
| 387 | 226959 | Oromia | East Shewa | Minjarna Shenkora | 08-50-00-N | 39-19-00-E |
| 388 | 226960 | Oromia | East Shewa | Minjarna Shenkora | 08-50-00-N | 39-19-00-E |
| 389 | 226962 | Oromia | West Shewa | Becho | 08-42-00-N | 38-37-00-E |
| 390 | 226963 | Oromia | East Shewa | Ada'a Chukala | 08-52-00-N | 38-54-00-E |
| 391 | 226965 | Oromia | Arsi | Sherka | 08-22-00-N | 39-57-00-E |
| 392 | 226971 | Oromia | Arsi | Tena | 07-50-00-N | 39-35-00-E |
| 393 | 226973 | Oromia | Arsi | Robe | 07-53-00-N | 39-37-00-E |
| 394 | 226977 | Oromia | Arsi | Gedeb | 07-10-00-N | 39-14-00-E |
| 395 | 226978 | Oromia | Arsi | Gedeb | 07-10-00-N | 39-14-00-E |
| 396 | 227007 | Amhara | East Gojam | Enemay | 10-27-00-N | 38-19-00-E |
| 397 | 227008 | Amhara | East Gojam | Enemay | 10-27-00-N | 38-19-00-E |
| 398 | 227009 | Oromia | Arsi | Sherka | 08-19-00-N | 39-55-00-E |
| 399 | 227010 | Oromia | Arsi | Sherka | 08-19-00-N | 39-55-00-E |
| 400 | 227012 | Oromia | Arsi | Sude | 07-53-00-N | 39-44-00-E |
| 401 | 227013 | Oromia | Arsi | Seru |  | 39-39- -E |
| 402 | 227016 | Oromia | West Shewa | Ambo | 08-54-00-N | 37-56-00-E |
| 403 | 227028 | SNNP | North Omo | Dita Dermalo |  |  |
| 404 | 227030 | Oromia | Borena | Yabelo |  |  |
| 405 | 227053 | Amhara | North Wello | Guba Lafto |  |  |
| 406 | 227054 | Amhara | North Shewa | Kewet | 09-57-00-N | 39-44-00-E |
| 407 | 227058 | Oromia | Bale | Sinanana Dinsho |  |  |
| 408 | 227061 | Oromia | Bale | Gaserana Gololcha |  |  |

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| SN | Accession | Region | Zone | District | Latitude | Longitude |
| 409 | 227062 | Oromia | Bale | Gaserana Gololcha |  |  |
| 410 | 227063 | SNNP | Hadiya | Soro |  |  |
| 411 | 227071 | SNNP | North Omo | Gofa Zuria |  |  |
| 412 | 231231 | Oromia | Arsi | Merti | 08-35-00-N | 39-56-00-E |
| 413 | 231499 | Oromia | North Shewa | Mulona Sululta | 09-16-00-N | 38-40-00-E |
| 414 | 231524 | Oromia | West Shewa | Jeldu | 09-16-00-N | 38-04-00-E |
| 415 | 231536 | Amhara | North Shewa | Geramidirna Keya Geb | 10-20-00-N | 39-38-00-E |
| 416 | 231538 | Oromia | Arsi | Sherka | 07-36-00-N | 39-28-00-E |
| 417 | 231540 | Amhara | North Shewa | Geramidirna Keya Geb | 10-16-00-N | 39-43-00-E |
| 418 | 231541 | Amhara | North Shewa | Geramidirna Keya Geb | 10-16-00-N | 39-43-00-E |
| 419 | 231565 | Amhara | North Shewa | Debre Berhan Zuria | 09-39-00-N | 39-29-00-E |
| 420 | 231573 | Amhara | East Gojam | Enemay | 10-38-00-N | 38-10-00-E |
| 421 | 231584 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 422 | 231585 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 423 | 231586 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 424 | 231587 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 425 | 231588 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 426 | 231589 | Amhara | North Wello | Dawuntna Delant | 11-34-00-N | 39-09-00-E |
| 427 | 231591 | Amhara | North Wello | Dawuntna Delant | 11-35-00-N | 39-04-00-E |
| 428 | 231592 | Amhara | North Wello | Dawuntna Delant | 11-35-00-N | 39-04-00-E |
| 429 | 231593 | Amhara | North Wello | Wadla | 11-31-00-N | 39-05-00-E |
| 430 | 231594 | Amhara | North Wello | Wadla | 11-31-00-N | 39-05-00-E |
| 431 | 231596 | Amhara | North Wello | Wadla | 11-37-00-N | 38-55-00-E |
| 432 | 231597 | Amhara | South Wello | Debresina | 10-51-00-N | 39-00-00-E |
| 433 | 231600 | Amhara | South Wello | Debresina | 10-51-00-N | 39-00-00-E |
| 434 | 231603 | Oromia | East Harerge | Kombolcha | 09-29-00-N | 42-14-00-E |
| 435 | 231610 | Oromia | East Harerge | Kurfa Chele | 09-18-00-N | 41-45-00-E |
| 436 | 234531 | Oromia | North Shewa | Mulona Sululta |  |  |
| 437 | 234532 | Oromia | North Shewa | Mulona Sululta |  |  |
| 438 | 234533 | Oromia | East Shewa | Lome |  |  |
| 439 | 234534 | Oromia | East Shewa | Lome |  |  |
| 440 | 234536 | Amhara | North Shewa | Minjarna Shenkora |  |  |
| 441 | 234541 | USDA | USDA | USDA |  |  |
| 442 | 234545 | USDA | USDA | USDA |  |  |
| 443 | 234546 | USDA | USDA | USDA |  |  |
| 444 | 234547 | USDA | USDA | USDA |  |  |
| 445 | 234548 | USDA | USDA | USDA |  |  |
| 446 | 234549 | USDA | USDA | USDA |  |  |
| 447 | 234550 | USDA | USDA | USDA |  |  |
| 448 | 234555 | USDA | USDA | USDA |  |  |
| 449 | 234558 | USDA | USDA | USDA |  |  |
| 450 | 234603 | USDA | USDA | USDA |  |  |
| 451 | 234604 | USDA | USDA |  |  |  |
| 452 | 234606 | USDA | USDA | USDA |  |  |
| 453 | 234607 | USDA | USDA | USDA |  |  |
| 454 | 234611 | USDA | USDA | USDA |  |  |
| 455 | 234612 | USDA | USDA | USDA |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SN | Accession | Region | Zone | District | Latitude | | Longitude | |
| 456 | 234613 | USDA | USDA | USDA |  | |  | |
| 457 | 234614 | USDA | USDA | USDA |  | |  | |
| 458 | 234615 | USDA | USDA | USDA |  | |  | |
| 459 | 234616 | USDA | USDA | USDA |  | |  | |
| 460 | 234623 | USDA | USDA | USDA |  | |  | |
| 461 | 234624 | USDA | USDA | USDA |  | |  | |
| 462 | 234630 | USDA | USDA | USDA |  | |  | |
| 463 | 234631 | USDA | USDA | USDA |  | |  | |
| 464 | 234635 | USDA | USDA | USDA |  | |  | |
| 465 | 234636 | USDA | USDA | USDA |  | |  | |
| 466 | 234637 | USDA | USDA | USDA |  | |  | |
| 467 | 234638 | USDA | USDA | USDA |  | |  | |
| 468 | 234639 | USDA | USDA | USDA |  | |  | |
| 469 | 234640 | USDA | USDA | USDA |  | |  | |
| 470 | 234641 | USDA | USDA | USDA |  | |  | |
| 471 | 234642 | USDA | USDA | USDA |  | |  | |
| 472 | 234643 | USDA | USDA | USDA |  | |  | |
| 473 | 234646 | USDA | USDA | USDA |  | |  | |
| 474 | 234647 | USDA | USDA | USDA |  | |  | |
| 475 | 234648 | USDA | USDA | USDA |  | |  | |
| 476 | 234649 | USDA | USDA | USDA |  | |  | |
| 477 | 234651 | USDA | USDA | USDA |  | |  | |
| 478 | 234652 | USDA | USDA | USDA |  | |  | |
| 479 | 234653 | USDA | USDA | USDA |  | |  | |
| 480 | 234654 | USDA | USDA | USDA |  | |  | |
| 481 | 234655 | USDA | USDA | USDA |  | |  | |
| 482 | 234658 | USDA | USDA | USDA |  | |  | |
| 483 | 234659 | USDA | USDA | USDA |  | |  | |
| 484 | 234660 | USDA | USDA | USDA |  | |  | |
| 485 | 234661 | USDA | USDA | USDA |  | |  | |
| 486 | 234662 | USDA | USDA | USDA |  | |  | |
| 487 | 234663 | USDA | USDA | USDA |  | |  | |
| 488 | 234667 | USDA | USDA | USDA |  | |  | |
| 489 | 234668 | USDA | USDA | USDA |  | |  | |
| 490 | 234669 | USDA | USDA | USDA |  | |  | |
| 491 | 234670 | USDA | USDA | USDA |  | |  | |
| 492 | 234672 | USDA | USDA | USDA |  | |  | |
| 493 | 234673 | USDA | USDA | USDA |  | |  | |
| 494 | 234674 | USDA | USDA | USDA |  | |  | |
| 495 | 234676 | USDA | USDA | USDA |  | |  | |
| 496 | 234679 | USDA | USDA | USDA |  | |  | |
| 497 | 234680 | USDA | USDA | USDA |  | |  | |
| 498 | 234682 | USDA | USDA | USDA |  | |  | |
| 499 | 234684 | USDA | USDA | USDA |  | |  | |
| 500 | 234685 | USDA | USDA | USDA |  | |  | |
| 501 | 236269 | Tigray | Southern | Ofla |  | |  | |
| 502 | 236270 | Tigray | Southern | Ofla |  | |  | |
|  |  |  |  |  |  | |  | |
| SN | Accession | Region | Zone | District | | Latitude | | | Longitude | |
| 503 | 236271 | Tigray | Southern | Ofla | |  | | |  | |
| 504 | 236273 | Tigray | Southern | Endamehoni | |  | | |  | |
| 505 | 236274 | Tigray | Southern | Endamehoni | |  | | |  | |
| 506 | 236276 | Tigray | Southern | Endamehoni | |  | | |  | |
| 507 | 236277 | Tigray | Southern | Enderta | |  | | |  | |
| 508 | 236278 | Tigray | Southern | Enderta | |  | | |  | |
| 509 | 236279 | Tigray | Central | Degua Temben | |  | | |  | |
| 510 | 236280 | Tigray | Central | Degua Temben | |  | | |  | |
| 511 | 236281 | Tigray | Central | Degua Temben | |  | | |  | |
| 512 | 236282 | Tigray | Southern | Samre | |  | | |  | |
| 513 | 236283 | Tigray | Central | Degua Temben | |  | | |  | |
| 514 | 236284 | Tigray | Central | Degua Temben | |  | | |  | |
| 515 | 236285 | Tigray | Central | Degua Temben | |  | | |  | |
| 516 | 236286 | Tigray | Eastern | Wukro | |  | | |  | |
| 517 | 236287 | Tigray | Eastern | Wukro | |  | | |  | |
| 518 | 236288 | Tigray | Eastern | Ganta Afeshum | |  | | |  | |
| 519 | 236291 | Tigray | Central | Adwa | |  | | |  | |
| 520 | 236294 | Tigray | Central | Laelay Maychew | |  | | |  | |
| 521 | 236295 | Tigray | Central | Laelay Maychew | |  | | |  | |
| 522 | 236296 | Tigray | Central | Laelay Maychew | |  | | |  | |
| 523 | 236298 | Tigray | Central | Laelay Maychew | |  | | |  | |
| 524 | 236300 | Tigray | Central | Tahtay Maychew | |  | | |  | |
| 525 | 236301 | Amhara | North Gondar | Addi Arkay | |  | | |  | |
| 526 | 236302 | Amhara | North Gondar | Debark | |  | | |  | |
| 527 | 236303 | Amhara | North Gondar | Wegera | |  | | |  | |
| 528 | 236304 | Amhara | North Gondar | Wegera | |  | | |  | |
| 529 | 236305 | Amhara | South Gondar | Farta | |  | | |  | |
| 530 | 236306 | Amhara | South Gondar | Farta | |  | | |  | |
| 531 | 236308 | Amhara | West Gojam | Adet | |  | | |  | |
| 532 | 236310 | Amhara | East Gojam | Debre Markos | |  | | |  | |
| 533 | 236311 | Amhara | East Gojam | Awabel | |  | | |  | |
| 534 | 236312 | Amhara | East Gojam | Enemay | |  | | |  | |
| 535 | 236313 | Amhara | East Gojam | Enarj Enawga | |  | | |  | |
| 536 | 236314 | Oromia | North Shewa | Wara Jarso | |  | | |  | |
| 537 | 236315 | Oromia | North Shewa | Gerar Jarso | |  | | |  | |
| 538 | 236453 | Amhara | East Gojam | Enemay | |  | | |  | |
| 539 | 236974 | Oromia | Arsi | Gedeb | | 07-19-00-N | | | 39-16-00-E | |
| 540 | 236980 | Oromia | Arsi | Digeluna Tijo | | 07-45-00-N | | | 39-11-00-E | |
| 541 | 236981 | Oromia | Arsi | Hitosa | | 08-09-00-N | | | 39-21-00-E | |
| 542 | 236982 | Oromia | Arsi | Dodotana Sire | | 08-70-00-N | | | 39-20-00-E | |
| 543 | 236984 | Oromia | Arsi | Seru | | 07-40-00-N | | | 40-12-00-E | |
| 544 | 236985 | Oromia | Arsi | Seru | | 07-40-00-N | | | 40-12-00-E | |
| 545 | 236986 | Amhara | North Shewa | Minjarna Shenkora | | 09-30-00-N | | | 39-20-00-E | |
| 546 | 238113 | Tigray | Southern | Ofla | | 12-31-00-N | | | 32-31-00-E | |
| 547 | 238114 | Tigray | Central | Adwa | | 14-02-00-N | | | 38-04-00-E | |
| 548 | 238115 | Tigray | Central | Adwa | | 14-02-00-N | | | 38-04-00-E | |
| 549 | 238116 | Tigray | Central | Adwa | | 14-02-00-N | | | 38-41-00-E | |
|  |  |  |  |  | |  | | |  | |
| SN | Accession | Region | Zone | District | | Latitude | | Longitude | |
| 550 | 238117 | Tigray | Central | Adwa | | 14-02-00-N | | 38-04-00-E | |
| 551 | 238118 | Tigray | Central | Werie Lehe | | 13-04-00-N | | 38-04-00-E | |
| 552 | 238119 | Tigray | Central | Werie Lehe | | 14-04-00-N | | 38-04-00-E | |
| 553 | 238120 | Tigray | Central | Werie Lehe | | 13-04-00-N | | 39-35-00-E | |
| 554 | 238122 | Tigray | Central | Werie Lehe | | 13-04-00-N | | 39-35-00-E | |
| 555 | 238123 | Tigray | Central | Werie Lehe | | 13-04-00-N | | 39-35-00-E | |
| 556 | 238124 | Tigray | Central | Werie Lehe | | 14-02-00-N | | 38-04-00-E | |
| 557 | 238125 | Tigray | Central | Adwa | | 14-02-00-N | | 38-04-00-E | |
| 558 | 238126 | Tigray | Central | Adwa | | 14-02-00-N | | 38-04-00-E | |
| 559 | 238127 | Tigray | Eastern | Ganta Afeshum | | 14-30-00-N | | 39-50-00-E | |
| 560 | 238128 | Tigray | Eastern | Ganta Afeshum | | 14-30-00-N | | 39-50-00-E | |
| 561 | 238130 | Tigray | Eastern | Hawzen | | 14-10-00-N | | 39-52-00-E | |
| 562 | 238131 | Tigray | Eastern | Atsbi Wenberta | | 13-09-00-N | | 39-08-00-E | |
| 563 | 238132 | Tigray | Eastern | Atsbi Wenberta | | 13-09-00-N | | 39-08-00-E | |
| 564 | 238133 | Tigray | Eastern | Atsbi Wenberta | | 13-09-00-N | | 39-08-00-E | |
| 565 | 238134 | Tigray | Eastern | Atsbi Wenberta | | 13-09-00-N | | 39-08-00-E | |
| 566 | 238137 | Tigray | Central | Tahtay Maychew | | 14-04-00-N | | 38-05-00-E | |
| 567 | 238139 | Amhara | East Gojam | Guzamn | | 14-02-00-N | | 37-09-00-E | |
| 568 | 238492 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 569 | 238498 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 570 | 238504 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 571 | 238507 | Oromia | East Shewa | Lome | |  | |  | |
| 572 | 238510 | Oromia | East Shewa | Lome | |  | |  | |
| 573 | 238513 | Amhara | North Shewa | Minjarna Shenkora | |  | |  | |
| 574 | 238516 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 575 | 238519 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 576 | 238522 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 577 | 238525 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 578 | 238528 | Oromia | East Shewa | Ada'a Chukala | |  | |  | |
| 579 | 238531 | Oromia | East Shewa | Akaki | |  | |  | |
| 580 | 238534 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 581 | 238537 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 582 | 238540 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 583 | 238543 | Oromia | North Shewa | Abichuna Gne'a | |  | |  | |
| 584 | 238546 | Oromia | North Shewa | Abichuna Gne'a | |  | |  | |
| 585 | 238549 | Oromia | North Shewa | Abichuna Gne'a | |  | |  | |
| 586 | 238555 | Amhara | North Shewa | Moretna Jiru | |  | |  | |
| 587 | 238558 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 588 | 238561 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 589 | 238567 | Amhara | North Shewa | Debre Berhan Zuria | |  | |  | |
| 590 | 238570 | Amhara | North Shewa | Ankober | |  | |  | |
| 591 | 238573 | Amhara | North Shewa | Ankober | |  | |  | |
| 592 | 238871 | Oromia | Bale | Sinanana Dinsho | |  | |  | |
| 593 | 238873 | Oromia | Bale | Sinanana Dinsho | |  | |  | |
| 594 | 238878 | Oromia | Bale | Agarfa | |  | |  | |
| 595 | 238886 | Oromia | Bale | Gaserana Gololcha | |  | |  | |

\*EBI: [www.ibc.gov.et](http://www.ibc.gov.et)

Table S3. Preliminary screen of Al3+ tolerance of 594 Ethiopian durum wheat accessions grown in Al3+-containing nutrient solution where total root length after 5 days growth was used to classify genotypes.

|  |  |  |  |
| --- | --- | --- | --- |
| SN | Acc. | TR | PC |
| 1 | 204399 | 8.3 | T |
| 2 | 214516 | 8.3 | T |
| 3 | 234641 | 7.6 | T |
| 4 | 226888 | 7.2 | T |
| 5 | 227061 | 7.0 | T |
| 6 | 222732 | 6.1 | T |
| 7 | 208287 | 5.2 | T |
| 8 | 222684 | 4.9 | T |
| 9 | 226960 | 4.9 | T |
| 10 | 208285 | 4.8 | T |
| 11 | 222382 | 4.8 | T |
| 12 | 208318 | 4.7 | T |
| 13 | 236308 | 4.7 | T |
| 14 | 208220 | 4.4 | T |
| 15 | 222515 | 4.4 | T |
| 16 | 238139 | 4.0 | T |
| 17 | 214515 | 3.5 | T |
| 18 | 226884 | 3.2 | T |
| 19 | 204483 | 3.1 | T |
| 20 | 226951 | 3.1 | T |
| 21 | 204484 | 3.0 | I |
| 22 | 204488 | 3.0 | I |
| 23 | 208149 | 3.0 | I |
| 24 | 208222 | 3.0 | I |
| 25 | 208223 | 3.0 | I |
| 26 | 204519 | 2.9 | I |
| 27 | 208155 | 2.9 | I |
| 28 | 208228 | 2.9 | I |
| 29 | 231585 | 2.9 | I |
| 30 | 204493 | 2.8 | I |
| 31 | 208152 | 2.8 | I |
| 32 | 208234 | 2.8 | I |
| 33 | 238513 | 2.8 | I |
| 34 | 238555 | 2.8 | I |
| 35 | 5634 | 2.7 | I |
| 36 | 7925 | 2.7 | I |
| 37 | 7961 | 2.7 | I |
| 38 | 208150 | 2.7 | I |
| 39 | 208162 | 2.7 | I |
| 40 | 208224 | 2.7 | I |
| 41 | 208229 | 2.7 | I |
| 42 | 208239 | 2.7 | I |
| 43 | 238113 | 2.7 | I |
| 44 | 6956 | 2.6 | T |
| 45 | 7960 | 2.6 | I |
| 46 | 204349 | 2.6 | I |
| SN | Acc. | TR | PC |
| 47 | 204411 | 2.6 | I |
| 48 | 204417 | 2.6 | I |
| 49 | 208168 | 2.6 | I |
| 50 | 208186 | 2.6 | I |
| 51 | 208192 | 2.6 | I |
| 52 | 208241 | 2.6 | I |
| 53 | 208243 | 2.6 | I |
| 54 | 231524 | 2.6 | I |
| 55 | 231588 | 2.6 | I |
| 56 | 231589 | 2.6 | I |
| 57 | 234676 | 2.6 | I |
| 58 | 238118 | 2.6 | I |
| 59 | 238528 | 2.6 | I |
| 60 | 238549 | 2.6 | I |
| 61 | 238558 | 2.6 | I |
| 62 | 238871 | 2.6 | I |
| 63 | 7118 | 2.5 | I |
| 64 | 204485 | 2.5 | I |
| 65 | 204544 | 2.5 | I |
| 66 | 204563 | 2.5 | I |
| 67 | 208161 | 2.5 | I |
| 68 | 208169 | 2.5 | I |
| 69 | 208171 | 2.5 | I |
| 70 | 208248 | 2.5 | I |
| 71 | 208258 | 2.5 | I |
| 72 | 210805 | 2.5 | I |
| 73 | 222708 | 2.5 | I |
| 74 | 223257 | 2.5 | I |
| 75 | 226834 | 2.5 | I |
| 76 | 238534 | 2.5 | I |
| 77 | 238543 | 2.5 | I |
| 78 | 238570 | 2.5 | I |
| 79 | 6856 | 2.4 | I |
| 80 | 208225 | 2.4 | I |
| 81 | 214375 | 2.4 | I |
| 82 | 216602 | 2.4 | I |
| 83 | 222464 | 2.4 | I |
| 84 | 222508 | 2.4 | I |
| 85 | 222629 | 2.4 | I |
| 86 | 226363 | 2.4 | I |
| 87 | 226371 | 2.4 | I |
| 88 | 226389 | 2.4 | I |
| 89 | 226922 | 2.4 | I |
| 90 | 226962 | 2.4 | I |
| 91 | 227012 | 2.4 | I |
| 92 | 231499 | 2.4 | I |
| SN | Acc. | TR | PC |
| 93 | 231584 | 2.4 | I |
| 94 | 231591 | 2.4 | I |
| 95 | 234674 | 2.4 | I |
| 96 | 238116 | 2.4 | I |
| 97 | 238123 | 2.4 | I |
| 98 | 238132 | 2.4 | I |
| 99 | 238537 | 2.4 | I |
| 100 | 238567 | 2.4 | I |
| 101 | 8051 | 2.3 | I |
| 102 | 8356 | 2.3 | I |
| 103 | 203996 | 2.3 | I |
| 104 | 208151 | 2.3 | I |
| 105 | 208156 | 2.3 | I |
| 106 | 208188 | 2.3 | I |
| 107 | 208238 | 2.3 | I |
| 108 | 208265 | 2.3 | I |
| 109 | 208331 | 2.3 | I |
| 110 | 210816 | 2.3 | I |
| 111 | 210823 | 2.3 | I |
| 112 | 214356 | 2.3 | I |
| 113 | 215411 | 2.3 | I |
| 114 | 216604 | 2.3 | I |
| 115 | 222402 | 2.3 | I |
| 116 | 222644 | 2.3 | I |
| 117 | 226301 | 2.3 | I |
| 118 | 226312 | 2.3 | I |
| 119 | 226958 | 2.3 | I |
| 120 | 227010 | 2.3 | I |
| 121 | 227013 | 2.3 | I |
| 122 | 231565 | 2.3 | I |
| 123 | 231597 | 2.3 | I |
| 124 | 234615 | 2.3 | I |
| 125 | 238125 | 2.3 | I |
| 126 | 238126 | 2.3 | I |
| 127 | 238133 | 2.3 | I |
| 128 | 238504 | 2.3 | I |
| 129 | 238519 | 2.3 | I |
| 130 | 238561 | 2.3 | I |
| 131 | 238573 | 2.3 | I |
| 132 | 7345 | 2.2 | I |
| 133 | 8279 | 2.2 | I |
| 134 | 204392 | 2.2 | I |
| 135 | 204560 | 2.2 | I |
| 136 | 204562 | 2.2 | I |
| 137 | 204564 | 2.2 | I |
| 138 | 204566 | 2.2 | I |
| SN | Acc. | TR | PC |
| 139 | 206700 | 2.2 | I |
| 140 | 208173 | 2.2 | I |
| 141 | 208209 | 2.2 | I |
| 142 | 208250 | 2.2 | I |
| 143 | 208276 | 2.2 | I |
| 144 | 208294 | 2.2 | I |
| 145 | 210808 | 2.2 | I |
| 146 | 210818 | 2.2 | I |
| 147 | 210820 | 2.2 | I |
| 148 | 211487 | 2.2 | I |
| 149 | 212561 | 2.2 | I |
| 150 | 214309 | 2.2 | I |
| 151 | 214590 | 2.2 | I |
| 152 | 215276 | 2.2 | I |
| 153 | 222462 | 2.2 | I |
| 154 | 226209 | 2.2 | I |
| 155 | 226331 | 2.2 | I |
| 156 | 226342 | 2.2 | I |
| 157 | 226903 | 2.2 | I |
| 158 | 226914 | 2.2 | I |
| 159 | 226954 | 2.2 | I |
| 160 | 226965 | 2.2 | I |
| 161 | 227007 | 2.2 | I |
| 162 | 231231 | 2.2 | I |
| 163 | 231540 | 2.2 | I |
| 164 | 234534 | 2.2 | I |
| 165 | 234558 | 2.2 | I |
| 166 | 234607 | 2.2 | I |
| 167 | 238115 | 2.2 | I |
| 168 | 238119 | 2.2 | I |
| 169 | 238134 | 2.2 | I |
| 170 | 238540 | 2.2 | I |
| 171 | 208146 | 2.1 | I |
| 172 | 208240 | 2.1 | I |
| 173 | 208273 | 2.1 | I |
| 174 | 208332 | 2.1 | I |
| 175 | 208478 | 2.1 | I |
| 176 | 210809 | 2.1 | I |
| 177 | 210821 | 2.1 | I |
| 178 | 210826 | 2.1 | I |
| 179 | 222414 | 2.1 | I |
| 180 | 222415 | 2.1 | I |
| 181 | 222469 | 2.1 | I |
| 182 | 222503 | 2.1 | I |
| 183 | 222561 | 2.1 | I |
| 184 | 222568 | 2.1 | I |

Table S3. Continued

|  |  |  |  |
| --- | --- | --- | --- |
| SN | Acc. | TR | PC |
| 185 | 222682 | 2.1 | I |
| 186 | 226808 | 2.1 | I |
| 187 | 226809 | 2.1 | I |
| 188 | 226856 | 2.1 | I |
| 189 | 227009 | 2.1 | I |
| 190 | 231536 | 2.1 | I |
| 191 | 231541 | 2.1 | I |
| 192 | 231587 | 2.1 | I |
| 193 | 234631 | 2.1 | I |
| 194 | 234662 | 2.1 | I |
| 195 | 236980 | 2.1 | I |
| 196 | 238120 | 2.1 | I |
| 197 | 238127 | 2.1 | I |
| 198 | 238131 | 2.1 | I |
| 199 | 238498 | 2.1 | I |
| 200 | 238507 | 2.1 | I |
| 201 | 238546 | 2.1 | I |
| 202 | 208172 | 2.0 | S |
| 203 | 208254 | 2.0 | S |
| 204 | 208260 | 2.0 | S |
| 205 | 208293 | 2.0 | S |
| 206 | 208327 | 2.0 | S |
| 207 | 208474 | 2.0 | S |
| 208 | 210796 | 2.0 | S |
| 209 | 210806 | 2.0 | S |
| 210 | 210813 | 2.0 | S |
| 211 | 210824 | 2.0 | S |
| 212 | 210825 | 2.0 | S |
| 213 | 214333 | 2.0 | S |
| 214 | 214557 | 2.0 | S |
| 215 | 216590 | 2.0 | S |
| 216 | 222362 | 2.0 | S |
| 217 | 222514 | 2.0 | S |
| 218 | 222533 | 2.0 | S |
| 219 | 222627 | 2.0 | S |
| 220 | 226207 | 2.0 | S |
| 221 | 226273 | 2.0 | S |
| 222 | 226392 | 2.0 | S |
| 223 | 226840 | 2.0 | S |
| 224 | 226885 | 2.0 | S |
| 225 | 226886 | 2.0 | S |
| 226 | 226894 | 2.0 | S |
| 227 | 227054 | 2.0 | S |
| 228 | 227058 | 2.0 | S |
| 229 | 227062 | 2.0 | S |
| 230 | 231610 | 2.0 | S |
| 231 | 234533 | 2.0 | S |
| SN | Acc. | TR | PC |
| 232 | 234545 | 2.0 | S |
| 233 | 234635 | 2.0 | S |
| 234 | 234637 | 2.0 | S |
| 235 | 234648 | 2.0 | S |
| 236 | 234654 | 2.0 | S |
| 237 | 234679 | 2.0 | S |
| 238 | 234685 | 2.0 | S |
| 239 | 236277 | 2.0 | S |
| 240 | 236287 | 2.0 | S |
| 241 | 236295 | 2.0 | S |
| 242 | 236311 | 2.0 | S |
| 243 | 236313 | 2.0 | S |
| 244 | 236314 | 2.0 | S |
| 245 | 238114 | 2.0 | S |
| 246 | 238137 | 2.0 | S |
| 247 | 238516 | 2.0 | S |
| 248 | 5690 | 1.9 | S |
| 249 | 203776 | 1.9 | S |
| 250 | 206531 | 1.9 | S |
| 251 | 206554 | 1.9 | S |
| 252 | 208136 | 1.9 | S |
| 253 | 208165 | 1.9 | S |
| 254 | 208167 | 1.9 | S |
| 255 | 208264 | 1.9 | S |
| 256 | 208292 | 1.9 | S |
| 257 | 208312 | 1.9 | S |
| 258 | 208321 | 1.9 | S |
| 259 | 208334 | 1.9 | S |
| 260 | 208783 | 1.9 | S |
| 261 | 210797 | 1.9 | S |
| 262 | 210810 | 1.9 | S |
| 263 | 210812 | 1.9 | S |
| 264 | 214307 | 1.9 | S |
| 265 | 214308 | 1.9 | S |
| 266 | 214357 | 1.9 | S |
| 267 | 222358 | 1.9 | S |
| 268 | 222418 | 1.9 | S |
| 269 | 222465 | 1.9 | S |
| 270 | 222554 | 1.9 | S |
| 271 | 226302 | 1.9 | S |
| 272 | 226807 | 1.9 | S |
| 273 | 227008 | 1.9 | S |
| 274 | 231538 | 1.9 | S |
| 275 | 231573 | 1.9 | S |
| 276 | 231594 | 1.9 | S |
| 277 | 231603 | 1.9 | S |
| 278 | 234550 | 1.9 | S |
| SN | Acc. | TR | PC |
| 279 | 234638 | 1.9 | S |
| 280 | 234640 | 1.9 | S |
| 281 | 234646 | 1.9 | S |
| 282 | 234653 | 1.9 | S |
| 283 | 236270 | 1.9 | S |
| 284 | 236312 | 1.9 | S |
| 285 | 236974 | 1.9 | S |
| 286 | 236986 | 1.9 | S |
| 287 | 238873 | 1.9 | S |
| 288 | 238886 | 1.9 | S |
| 289 | 8254 | 1.8 | S |
| 290 | 8333 | 1.8 | S |
| 291 | 204530 | 1.8 | S |
| 292 | 208206 | 1.8 | S |
| 293 | 208218 | 1.8 | S |
| 294 | 208230 | 1.8 | S |
| 295 | 208233 | 1.8 | S |
| 296 | 208242 | 1.8 | S |
| 297 | 208251 | 1.8 | S |
| 298 | 208279 | 1.8 | S |
| 299 | 208290 | 1.8 | S |
| 300 | 208310 | 1.8 | S |
| 301 | 208311 | 1.8 | S |
| 302 | 208314 | 1.8 | S |
| 303 | 210815 | 1.8 | S |
| 304 | 214352 | 1.8 | S |
| 305 | 214353 | 1.8 | S |
| 306 | 214377 | 1.8 | S |
| 307 | 214517 | 1.8 | S |
| 308 | 216474 | 1.8 | S |
| 309 | 216668 | 1.8 | S |
| 310 | 222360 | 1.8 | S |
| 311 | 222366 | 1.8 | S |
| 312 | 222431 | 1.8 | S |
| 313 | 222433 | 1.8 | S |
| 314 | 222453 | 1.8 | S |
| 315 | 222574 | 1.8 | S |
| 316 | 222578 | 1.8 | S |
| 317 | 222589 | 1.8 | S |
| 318 | 226279 | 1.8 | S |
| 319 | 226387 | 1.8 | S |
| 320 | 226393 | 1.8 | S |
| 321 | 226973 | 1.8 | S |
| 322 | 234546 | 1.8 | S |
| 323 | 234548 | 1.8 | S |
| 324 | 234612 | 1.8 | S |
| 325 | 234623 | 1.8 | S |
| SN | Acc. | TR | PC |
| 326 | 234651 | 1.8 | S |
| 327 | 234659 | 1.8 | S |
| 328 | 234673 | 1.8 | S |
| 329 | 238117 | 1.8 | S |
| 330 | 238130 | 1.8 | S |
| 331 | 238525 | 1.8 | S |
| 332 | 203922 | 1.7 | S |
| 333 | 204357 | 1.7 | S |
| 334 | 206567 | 1.7 | S |
| 335 | 208203 | 1.7 | S |
| 336 | 208277 | 1.7 | S |
| 337 | 208289 | 1.7 | S |
| 338 | 208316 | 1.7 | S |
| 339 | 208323 | 1.7 | S |
| 340 | 208336 | 1.7 | S |
| 341 | 208481 | 1.7 | S |
| 342 | 208931 | 1.7 | S |
| 343 | 210795 | 1.7 | S |
| 344 | 214320 | 1.7 | S |
| 345 | 216651 | 1.7 | S |
| 346 | 222297 | 1.7 | S |
| 347 | 222346 | 1.7 | S |
| 348 | 222359 | 1.7 | S |
| 349 | 222457 | 1.7 | S |
| 350 | 222810 | 1.7 | S |
| 351 | 226350 | 1.7 | S |
| 352 | 226351 | 1.7 | S |
| 353 | 226395 | 1.7 | S |
| 354 | 226887 | 1.7 | S |
| 355 | 226959 | 1.7 | S |
| 356 | 226978 | 1.7 | S |
| 357 | 234643 | 1.7 | S |
| 358 | 234668 | 1.7 | S |
| 359 | 234670 | 1.7 | S |
| 360 | 234672 | 1.7 | S |
| 361 | 236278 | 1.7 | S |
| 362 | 236280 | 1.7 | S |
| 363 | 236286 | 1.7 | S |
| 364 | 236288 | 1.7 | S |
| 365 | 236981 | 1.7 | S |
| 366 | 238128 | 1.7 | S |
| 367 | 238531 | 1.7 | S |
| 368 | 238878 | 1.7 | S |
| 369 | 204495 | 1.6 | S |
| 370 | 204536 | 1.6 | S |
| 371 | 204555 | 1.6 | S |
| 372 | 208175 | 1.6 | S |

Table S3. Continued

|  |  |  |  |
| --- | --- | --- | --- |
| SN | Acc. | TR | PC |
| 373 | 208210 | 1.6 | S |
| SN | Acc. | TR | PC |
| 374 | 208317 | 1.6 | S |
| 375 | 208320 | 1.6 | S |
| 376 | 210801 | 1.6 | S |
| 377 | 210803 | 1.6 | S |
| 378 | 214535 | 1.6 | S |
| 379 | 214881 | 1.6 | S |
| 380 | 222434 | 1.6 | S |
| 381 | 222797 | 1.6 | S |
| 382 | 226881 | 1.6 | S |
| 383 | 231586 | 1.6 | S |
| 384 | 231596 | 1.6 | S |
| 385 | 234532 | 1.6 | S |
| 386 | 234614 | 1.6 | S |
| 387 | 234660 | 1.6 | S |
| 388 | 234661 | 1.6 | S |
| 389 | 234680 | 1.6 | S |
| 390 | 236301 | 1.6 | S |
| 391 | 236453 | 1.6 | S |
| 392 | 238122 | 1.6 | S |
| 393 | 238492 | 1.6 | S |
| 394 | 238510 | 1.6 | S |
| 395 | 238522 | 1.6 | S |
| 396 | 204482 | 1.5 | S |
| 397 | 204520 | 1.5 | S |
| 398 | 206526 | 1.5 | S |
| 399 | 208145 | 1.5 | S |
| 400 | 208207 | 1.5 | S |
| 401 | 208212 | 1.5 | S |
| 402 | 208237 | 1.5 | S |
| 403 | 208267 | 1.5 | S |
| 404 | 208283 | 1.5 | S |
| 405 | 208286 | 1.5 | S |
| 406 | 208309 | 1.5 | S |
| 407 | 208315 | 1.5 | S |
| 408 | 208488 | 1.5 | S |
| 409 | 214571 | 1.5 | S |
| 410 | 222193 | 1.5 | S |
| 411 | 222352 | 1.5 | S |
| 412 | 222370 | 1.5 | S |
| 413 | 222632 | 1.5 | S |
| 414 | 222687 | 1.5 | S |
| 415 | 226830 | 1.5 | S |
| 416 | 226873 | 1.5 | S |
| 417 | 226971 | 1.5 | S |
| 418 | 226977 | 1.5 | S |
| SN | Acc. | TR | PC |
| 419 | 227030 | 1.5 | S |
| 420 | 231592 | 1.5 | S |
| 421 | 234624 | 1.5 | S |
| 422 | 234658 | 1.5 | S |
| 423 | 234684 | 1.5 | S |
| 424 | 236283 | 1.5 | S |
| 425 | 236300 | 1.5 | S |
| 426 | 236982 | 1.5 | S |
| 427 | 238124 | 1.5 | S |
| 428 | 7301 | 1.4 | S |
| 429 | 8217 | 1.4 | S |
| 430 | 203764 | 1.4 | S |
| 431 | 204525 | 1.4 | S |
| 432 | 206576 | 1.4 | S |
| 433 | 208184 | 1.4 | S |
| 434 | 208214 | 1.4 | S |
| 435 | 208244 | 1.4 | S |
| 436 | 208270 | 1.4 | S |
| 437 | 208333 | 1.4 | S |
| 438 | 216665 | 1.4 | S |
| 439 | 222342 | 1.4 | S |
| 440 | 222348 | 1.4 | S |
| 441 | 222372 | 1.4 | S |
| 442 | 222387 | 1.4 | S |
| 443 | 222608 | 1.4 | S |
| 444 | 222637 | 1.4 | S |
| 445 | 226191 | 1.4 | S |
| 446 | 226963 | 1.4 | S |
| 447 | 227063 | 1.4 | S |
| 448 | 231593 | 1.4 | S |
| 449 | 234541 | 1.4 | S |
| 450 | 234547 | 1.4 | S |
| 451 | 234647 | 1.4 | S |
| 452 | 234667 | 1.4 | S |
| 453 | 234669 | 1.4 | S |
| 454 | 234682 | 1.4 | S |
| 455 | 236291 | 1.4 | S |
| 456 | 236296 | 1.4 | S |
| 457 | 236298 | 1.4 | S |
| 458 | 208208 | 1.3 | S |
| 459 | 208215 | 1.3 | S |
| 460 | 208253 | 1.3 | S |
| 461 | 208324 | 1.3 | S |
| 462 | 208780 | 1.3 | S |
| 463 | 214315 | 1.3 | S |
| 464 | 214502 | 1.3 | S |
| 465 | 222322 | 1.3 | S |
| SN | Acc. | TR | PC |
| 466 | 222371 | 1.3 | S |
| 467 | 222813 | 1.3 | S |
| 468 | 222834 | 1.3 | S |
| 469 | 226874 | 1.3 | S |
| 470 | 226882 | 1.3 | S |
| 471 | 231600 | 1.3 | S |
| 472 | 234531 | 1.3 | S |
| 473 | 234536 | 1.3 | S |
| 474 | 234606 | 1.3 | S |
| 475 | 8436 | 1.2 | S |
| 476 | 208280 | 1.2 | S |
| 477 | 208319 | 1.2 | S |
| 478 | 214373 | 1.2 | S |
| 479 | 214874 | 1.2 | S |
| 480 | 222854 | 1.2 | S |
| 481 | 222859 | 1.2 | S |
| 482 | 234603 | 1.2 | S |
| 483 | 234649 | 1.2 | S |
| 484 | 236271 | 1.2 | S |
| 485 | 236273 | 1.2 | S |
| 486 | 236284 | 1.2 | S |
| 487 | 236303 | 1.2 | S |
| 488 | 208211 | 1.1 | S |
| 489 | 208271 | 1.1 | S |
| 490 | 208278 | 1.1 | S |
| 491 | 208281 | 1.1 | S |
| 492 | 208746 | 1.1 | S |
| 493 | 208873 | 1.1 | S |
| 494 | 210807 | 1.1 | S |
| 495 | 214472 | 1.1 | S |
| 496 | 216609 | 1.1 | S |
| 497 | 222474 | 1.1 | S |
| 498 | 226352 | 1.1 | S |
| 499 | 226819 | 1.1 | S |
| 500 | 227071 | 1.1 | S |
| 501 | 234555 | 1.1 | S |
| 502 | 234611 | 1.1 | S |
| 503 | 236302 | 1.1 | S |
| 504 | 236304 | 1.1 | S |
| 505 | 236315 | 1.1 | S |
| 506 | 5180 | 1.0 | S |
| 507 | 5314 | 1.0 | S |
| 508 | 7499 | 1.0 | S |
| 509 | 214587 | 1.0 | S |
| 510 | 216468 | 1.0 | S |
| 511 | 216603 | 1.0 | S |
| 512 | 222619 | 1.0 | S |
| SN | Acc. | TR | PC |
| 513 | 222776 | 1.0 | S |
| 514 | 226093 | 1.0 | S |
| 515 | 227053 | 1.0 | S |
| 516 | 234549 | 1.0 | S |
| 517 | 234616 | 1.0 | S |
| 518 | 236305 | 1.0 | S |
| 519 | 236984 | 1.0 | S |
| 520 | 5632 | 0.9 | S |
| 521 | 203855 | 0.9 | S |
| 522 | 208170 | 0.9 | S |
| 523 | 208190 | 0.9 | S |
| 524 | 208196 | 0.9 | S |
| 525 | 208307 | 0.9 | S |
| 526 | 214586 | 0.9 | S |
| 527 | 216607 | 0.9 | S |
| 528 | 222326 | 0.9 | S |
| 529 | 222327 | 0.9 | S |
| 530 | 222353 | 0.9 | S |
| 531 | 222613 | 0.9 | S |
| 532 | 226383 | 0.9 | S |
| 533 | 226837 | 0.9 | S |
| 534 | 227016 | 0.9 | S |
| 535 | 234604 | 0.9 | S |
| 536 | 234663 | 0.9 | S |
| 537 | 236276 | 0.9 | S |
| 538 | 236279 | 0.9 | S |
| 539 | 236282 | 0.9 | S |
| 540 | 236285 | 0.9 | S |
| 541 | 236294 | 0.9 | S |
| 542 | 236985 | 0.9 | S |
| 543 | 5546 | 0.8 | S |
| 544 | 7176 | 0.8 | S |
| 545 | 208282 | 0.8 | S |
| 546 | 222421 | 0.8 | S |
| 547 | 5325 | 0.7 | S |
| 548 | 6036 | 0.7 | S |
| 549 | 6891 | 0.7 | S |
| 550 | 7073 | 0.7 | S |
| 551 | 7227 | 0.7 | S |
| 552 | 7529 | 0.7 | S |
| 553 | 8317 | 0.7 | S |
| 554 | 203762 | 0.7 | S |
| 555 | 208491 | 0.7 | S |
| 556 | 216611 | 0.7 | S |
| 557 | 226151 | 0.7 | S |
| 558 | 226245 | 0.7 | S |
| 559 | 226327 | 0.7 | S |

Table S3. Continued

|  |  |  |  |
| --- | --- | --- | --- |
| SN | Acc. | TR | PC |
| 560 | 226366 | 0.7 | S |
| 561 | 236310 | 0.7 | S |
| 562 | 5487 | 0.6 | S |
| 563 | 8214 | 0.6 | S |
| 564 | 8435 | 0.6 | S |
| 565 | 203674 | 0.6 | S |
| 566 | 203756 | 0.6 | S |
| 567 | 203760 | 0.6 | S |
| 568 | 206690 | 1.2 | S |
| SN | Acc. | TR | PC |
| 569 | 208194 | 0.6 | S |
| 570 | 208252 | 0.6 | S |
| 571 | 208288 | 0.6 | S |
| 572 | 208308 | 0.6 | S |
| 573 | 213207 | 0.6 | S |
| 574 | 216470 | 1.7 | S |
| 575 | 216614 | 0.6 | S |
| 576 | 216663 | 0.6 | S |
| 577 | 216664 | 0.6 | S |
| SN | Acc. | TR | PC |
| 578 | 222347 | 0.6 | S |
| 579 | 222354 | 0.6 | S |
| 580 | 222404 | 0.6 | S |
| 581 | 222779 | 1.1 | S |
| 582 | 226345 | 0.6 | S |
| 583 | 226381 | 0.6 | S |
| 584 | 227028 | 0.6 | S |
| 585 | 234613 | 0.6 | S |
| 586 | 234630 | 0.6 | S |
| SN | Acc. | TR | PC |
| 587 | 234636 | 0.6 | S |
| 588 | 234639 | 0.6 | S |
| 589 | 234642 | 0.6 | S |
| 590 | 234652 | 0.6 | S |
| 591 | 234655 | 0.6 | S |
| 592 | 236269 | 1.9 | S |
| 593 | 236274 | 0.6 | S |
| 594 | 236281 | 0.6 | S |
| 595 | 236306 | 0.6 | S |

SN = Serial number; Acc. = Accession; TR = total root length (cm); PC = Phenotypic class; T = tolerant, I = Intermediate; S = Sensitive

Passport data obtained from: EBI: [www.ibc.gov.et](http://www.ibc.gov.et)