Table S1. Physicochemical characteristics of the soil sample

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil depth | Sand (%) | Clay (%) | Silt (%) | pH | EC (dS.m-1) | OC (%) | N (%) | P (ppm) | K (ppm) |
| 0-30 | 24 | 27 | 49 | 7.24 | 2.22 | 0.58 | 0.06 | 12.6 | 256 |

Table S2. Name, Origin and Some Morphological and Phenological Characteristics of 127 Safflower Genotypes.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Genotype No. | Genotype name | Origin | Flower color | Thorn | Flowering initiate (day) | Heads per plant | Plant height (cm) | Seeds per plant |
| 1 | - | Unknown | Yellow | + | 220 | 17 | 128 | 419 |
| 2 | - | Italy | Yellow to orang | + | 222 | 20 | 105 | 242 |
| 3 | Saffire | Canada | Yellow | + | 214 | 22 | 125 | 340 |
| 4 | AC Stirling | Canada | Yellow | + | 222 | 35 | 115 | 1225 |
| 5 | AC Sunset | Canada | Yellow | - | 214 | 40 | 120 | 713 |
| 6 | - | Spain | Yellow | + | 220 | 29 | 125 | 896 |
| 7 | N006 | Unknown | Yellow | - | 214 | 30 | 100 | 563 |
| 8 | LEED | Unknown | Yellow | + | 222 | 57 | 100 | 1211 |
| 9 | N942 | Unknown | Yellow | + | 222 | 23 | 120 | 400 |
| 10 | NSZK "A" | Unknown | Yellow | + | 220 | 16 | 115 | 304 |
| 11 | KUSUM | India | Yellow | + | 223 | 27 | 60 | 563 |
| 12 | V.GARHIA-PUSA | India | Orang | - | 222 | 23 | 90 | 440 |
| 13 | JAWARGI-3 | India | Yellow | - |  |  |  |  |
| 14 | TAGHALA GOLU | Iran | Yellow | - | 224 | 30 | 110 | 677 |
| 15 | ROMAN "A" | - | Orang | - | 221 | 20 | 145 | 681 |
| 16 | KOUSHEH | Iran | Orang | - | 220 | 55 | 135 | 754 |
| 17 | KUSAMBA | Pakistan | Orang | + | 214 | 47 | 130 | 1055 |
| 18 | Färberdistel, Saflor | [Russia](https://fa.wikipedia.org/wiki/%D8%A7%D8%AA%D8%AD%D8%A7%D8%AF_%D8%AC%D9%85%D8%A7%D9%87%DB%8C%D8%B1_%D8%B3%D9%88%D8%B3%DB%8C%D8%A7%D9%84%DB%8C%D8%B3%D8%AA%DB%8C_%D8%B4%D9%88%D8%B1%D9%88%DB%8C) | Yellow | + | 215 | 28 | 115 | 544 |
| 19 | Färberdistel, Saflor | Belgium | Yellow | + | 215 | 21 | 115 | 490 |
| 20 | Färberdistel, Saflor | Germany | Yellow | + | 220 | 35 | 100 | 596 |
| 21 | Färberdistel, Saflor | Unknown | Yellow | + | 215 | 32 | 90 | 798 |
| 22 | Färberdistel, Saflor | Germany | Orang | + |  |  |  |  |
| 23 | Färberdistel, Saflor | Morocco | Yellow | + | 225 | 25 | 110 | 520 |
| 24 | Färberdistel, Saflor | Paraguay | Orang | + | 214 | 43 | 115 | 840 |
| 25 | Färberdistel, Saflor | Germany | Yellow | + | 223 | 86 | 80 | 1479 |
| 26 | 1005 | Unknown | Yellow | + | 222 | 21 | 80 | 1132 |
| 27 | RIO SECO | Portugal | Yellow | + | 214 | 59 | 100 | 2970 |
| 28 | FALGUNI | Pakistan | Yellow | + | 213 | 46 | 90 | 1236 |
| 29 | Frio | America | Yellow | + | 214 | 34 | 135 | 807 |
| 30 | N009 | Unknown | Yellow | + | 212 | 42 | 125 | 1170 |
| 31 | Färberdistel, Saflor | Iran | Orang | - | 211 | 37 | 125 | 1218 |
| 32 | Färberdistel, Saflor | Iran | Yellow | - | 221 | 67 | 120 | 907 |
| 33 | URTUM | Egypt | Yellow | + | 223 | 60 | 135 | 768 |
| 34 | KUSAMBA | Pakistan | Yellow | - | 222 | 75 | 120 | 845 |
| 35 | KUSAMBA | Pakistan | Yellow to orang | + | 220 | 50 | 100 | 1228 |
| 36 | TAGHALA GOLU | Iran | Red | - | 221 | 31 | 115 | 622 |
| 37 | KUSUM | India | Yellow to orang | - | 225 | 91 | 135 | 726 |
| 38 | KUSAMBA | Pakistan | Yellow | + |  | 48 |  | 867 |
| 39 | Färberdistel, Saflor | Morocco | Orang | + | 221 | 28 | 130 | 884 |
| 40 | TASKENTSKIJ 51 | Russia | Red | + | 219 | 13 | 125 | 130 |
| 41 | N001 | Unknown | Orang | + | 213 | 38 | 145 | 556 |
| 42 | DART | Unknown | Yellow | + | 220 | 13 | 130 | 406 |
| 43 | Färberdistel, Saflor | Unknown | Yellow | + | 221 | 85 | 130 | 1352 |
| 44 | Färberdistel, Saflor | Unknown | Red | + | 220 | 60 | 135 | 1729 |
| 45 | Färberdistel, Saflor | Unknown | Yellow | - | 208 | 25 | 75 | 331 |
| 46 | CEGLEDI A | Hungary | Red | - | 220 | 75 | 155 | 1254 |
| 47 | Färberdistel, Saflor | Iran | Red | - | 220 | 58 | 160 | 1022 |
| 48 | Färberdistel, Saflor | Iran | Yellow | - | 223 | 35 | 140 | 411 |
| 49 | Färberdistel, Saflor | Iran | Orang | - | 223 | 25 | 135 | 515 |
| 50 | KUSUM | India | Orang | - | 223 | 30 | 160 | 773 |
| 51 | CEGLEDI "A" | Unknown | Yellow to orang | + | 221 | 37 | 160 | 564 |
| 52 | V.MAHMUDPUR-PUSA | India | Yellow | + | 219 | 25 | 125 | 892 |
| 53 | Gladki Borowski IHAR | Poland | Red | + | 219 | 18 | 125 | 1236 |
| 54 | Färberdistel, Saflor | Iran | Orang | + | 212 | 63 | 95 | 1744 |
| 55 | Färberdistel, Saflor | Iran | Yellow | + | 221 | 25 | 110 | 290 |
| 56 | ANGOL "A" | Unknown | Yellow | + | 222 | 48 | 150 | 979 |
| 57 | JAPAN "A" | Unknown | Yellow | - | 214 | 76 | 115 | 971 |
| 58 | Färberdistel, Saflor | Azerbaijan | Yellow | - | 215 | 56 | 105 | 1352 |
| 59 | Färberdistel, Saflor | North Korea | Yellow | - | 216 | 70 | 110 | 10 |
| 60 | MOSOMJ A | Unknown | Yellow | + | 215 | 82 | 125 | 2132 |
| 61 | Färberdistel, Saflor | Sudan | Yellow | + | 215 | 30 | 120 | 590 |
| 62 | Färberdistel, Saflor | Unknown | Yellow | + | 213 | 47 | 105 | 1280 |
| 63 | 55-633 | Unknown | Yellow to orang | + | 215 | 50 | 120 | 109 |
| 64 | 55-624 | Unknown | Yellow | + | 214 | 78 | 130 | 1619 |
| 65 | Färberdistel, Saflor | Spain | Yellow | + | 214 | 42 | 120 | 196 |
| 66 | Färberdistel, Saflor | Germany | Yellow to orang | + | 214 | 26 | 120 | 474 |
| 67 | Färberdistel, Saflor | Unknown | Yellow | + | 214 | 48 | 120 | 1221 |
| 68 | Färberdistel, Saflor | Germany | Yellow | + | 214 | 125 | 105 | 2653 |
| 69 | Färberdistel, Saflor | Germany | Orang | + | 215 | 32 | 125 | 899 |
| 70 | Färberdistel, Saflor | Germany | Yellow to orang | + | 215 | 42 | 120 | 501 |
| 71 | Färberdistel, Saflor | Germany | Yellow | + | 216 | 25 | 110 | 795 |
| 72 | Draa Basse Tige | Unknown | Orang | - | 214 | 41 | 120 | 650 |
| 73 | 54-336 | Unknown | Yellow | + | 215 | 63 | 125 | 923 |
| 74 | U.C.I. | America | Yellow | + | 221 | 94 | 105 | 1496 |
| 75 | Färberdistel, Saflor | Unknown | Yellow | + | 221 | 50 | 110 | 1144 |
| 76 | Färberdistel, Saflor | Germany | Yellow to orang | + | 222 | 19 | 125 | 454 |
| 77 | Färberdistel, Saflor | Germany | Yellow | + | 220 | 16 | 130 | 317 |
| 78 | Färberdistel, Saflor | Germany | Yellow | + | 221 | 15 | 125 | 298 |
| 79 | Färberdistel, Saflor | Germany | Yellow | + | 213 | 80 | 120 | 1755 |
| 80 | Färberdistel, Saflor | Germany | Yellow | - | 214 | 40 | 90 | 738 |
| 81 | Färberdistel, Saflor | Ethiopia | Yellow to orang | + | 220 | 42 | 130 | 443 |
| 82 | Moyen du Draa | Unknown | Yellow | + | 221 | 96 | 85 | 1788 |
| 83 | - | Unknown | Orang | + | 221 | 15 | 120 | 483 |
| 84 | S-51 Selektion R.A. | Unknown | Yellow | - | 217 | 20 | 100 | 591 |
| 85 | S. Draa | Unknown | Orang | + | 219 | 68 | 95 | 1065 |
| 86 | - | Sudan | Yellow | - | 214 | 49 | 110 | 1006 |
| 87 | - | Spain | Orang | + | 215 | 41 | 105 | 968 |
| 88 | - | Unknown | Yellow | + | 221 | 20 | 115 | 230 |
| 89 | Mogami Beni | Unknown | Yellow | + | 219 | 65 | 135 | 1116 |
| 90 | - | Germany | Yellow to orang | - | 214 | 54 | 105 | 1109 |
| 91 | - | Germany | Yellow | + | 220 | 75 | 115 | 1094 |
| 92 | - | North Korea | Orang | + | 213 | 26 | 125 | 569 |
| 93 | - | North Korea | Orang | + | 213 | 33 | 115 | 574 |
| 94 | Nagykálloi-A | Hungry | Yellow | + | 221 | 14 | 125 | 496 |
| 95 | Japan-A | Japan | Yellow | + | 222 | 9 | 100 | 272 |
| 96 | - | North Korea | Yellow | + | 223 | 32 | 60 | 893 |
| 97 | safran (tadz.) | Tajikistan | Yellow | - | 223 | 68 | 100 | 1659 |
| 98 | - | Unknown | Yellow to orang | + | 212 | 98 | 120 | 2775 |
| 99 | - | Unknown | Yellow | + | 221 | 28 | 95 | 380 |
| 100 | - | Mexico | Orang | - | 222 | 24 | 105 | 398 |
| 101 | - | Mexico | Orang | - | 223 | 30 | 140 | 983 |
| 102 | - | Mexico | Red | - | 215 | 55 | 100 | 1506 |
| 103 | - | Mexico | Red | + | 225 | 24 | 125 | 411 |
| 104 | - | Mexico | Orang | + | 214 | 30 | 130 | 630 |
| 105 | - | Mexico | Red | + | 212 | 27 | 90 | 1090 |
| 106 | - | Mexico | Red | + | 214 | 40 | 125 | 1011 |
| 107 | - | Mexico | Orang | + | 215 | 60 | 115 | 1028 |
| 108 | - | Mexico | Orang | + | 213 | 39 | 110 | 848 |
| 109 | - | Mexico | Orang | + | 214 | 58 | 105 | 1990 |
| 110 | - | Mexico | Orang | + | 216 | 30 | 110 | 759 |
| 111 | - | Mexico | Orang | + | 223 | 11 | 70 | 174 |
| 112 | - | Mexico | Yellow | + | 219 | 29 | 90 | 1002 |
| 113 | - | Mexico | Yellow | + | 219 | 40 | 115 | 919 |
| 114 | - | Mexico | Yellow | + | 217 | 17 | 95 | 556 |
| 115 | - | Mexico | Yellow | + | 219 | 34 | 105 | 122 |
| 116 | - | Mexico | Yellow | + | 212 | 31 | 105 | 760 |
| 117 | - | Mexico | Yellow | + | 214 | 63 | 95 | 1616 |
| 118 | - | Mexico | Yellow | + | 218 | 44 | 125 | 1157 |
| 119 | - | Mexico | Yellow | + | 214 | 38 | 105 | 1052 |
| 120 | - | Mexico | Yellow | - | 215 | 48 | 120 | 1128 |
| 121 | - | Mexico | Yellow | + | 218 | 46 | 110 | 644 |
| 122 | - | Mexico | Yellow | - | 214 | 22 | 85 | 262 |
| 123 | Soffe | Iran | Red | - | 222 | 58 | 145 | 1943 |
| 124 | Golmehr | Iran | Red | - | 221 | 31 | 150 | 1484 |
| 125 | Padideh | Iran | Yellow to orang | + | 223 | 40 | 100 | 605 |
| 126 | Parnian | Iran | White | - | 213 | 14 | 115 | 536 |
| 127 | Goldasht | Iran | Red | - | 213 | 18 | 110 | 673 |

Continue Table S1. Name, Origin and Some Morphological and Phenological Characteristics of 127 Safflower Genotypes.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Genotype No. | Genotype name | Origin | Stem diameter (mm) | Head diameter (mm) | Number of branches | 100-seed weight (g) | Seed yield  (kg/plot) | Seed yield  (kg/ha) |
| 1 | - | Unknown | 7.85 | 23.8 | 5 | 2.5 | 200 | 1667 |
| 2 | - | Italy | 8.73 | 20.1 | 6 | 2.2 | 180 | 1500 |
| 3 | Saffire | Canada | 8.64 | 22/9 | 8 | 1.9 | 360 | 3000 |
| 4 | AC Stirling | Canada | 10.8 | 22.5 | 7 | 2.9 | 350 | 2917 |
| 5 | AC Sunset | Canada | 10.6 | 24.2 | 10 | 2.5 | 280 | 2333 |
| 6 | - | Spain | 10.6 | 19.4 | 10 | 2.3 | 305 | 2542 |
| 7 | N006 | Unknown | 10.8 | 19 | 11 | 1.8 | 235 | 1958 |
| 8 | LEED | Unknown | 13.4 | 33.2 | 14 | 2.9 | 260 | 2167 |
| 9 | N942 | Unknown | 10.4 | 19.1 | 6 | 2.6 | 240 | 2000 |
| 10 | NSZK "A" | Unknown | 9.63 | 25.4 | 12 | 2.3 | 370 | 3083 |
| 11 | KUSUM | India | 6/94 | 23.3 | 7 | 3.1 | 205 | 1708 |
| 12 | V.GARHIA-PUSA | India | 7.8 | 25.8 | 7 | 2.5 | 360 | 3000 |
| 13 | JAWARGI-3 | India |  |  |  |  |  |  |
| 14 | TAGHALA GOLU | Iran | 11.1 | 29.3 | 13 | 2.3 | 275 | 2292 |
| 15 | ROMAN "A" | - | 9.2 | 22.5 | 7 | 2.3 | 215 | 1792 |
| 16 | KOUSHEH | Iran | 12.3 | 21.5 | 10 | 2.8 | 360 | 3000 |
| 17 | KUSAMBA | Pakistan | 11.8 | 21.2 | 7 | 2.8 | 360 | 3000 |
| 18 | Färberdistel, Saflor | [Russia](https://fa.wikipedia.org/wiki/%D8%A7%D8%AA%D8%AD%D8%A7%D8%AF_%D8%AC%D9%85%D8%A7%D9%87%DB%8C%D8%B1_%D8%B3%D9%88%D8%B3%DB%8C%D8%A7%D9%84%DB%8C%D8%B3%D8%AA%DB%8C_%D8%B4%D9%88%D8%B1%D9%88%DB%8C) | 12.2 | 21.8 | 12 | 2.7 | 350 | 2917 |
| 19 | Färberdistel, Saflor | Belgium | 9.2 | 18.8 | 7 | 2.3 | 345 | 2875 |
| 20 | Färberdistel, Saflor | Germany | 9.63 | 19.7 | 11 | 2 | 100 | 833 |
| 21 | Färberdistel, Saflor | Unknown | 10.9 | 31.4 | 9 | 2.1 | 140 | 1167 |
| 22 | Färberdistel, Saflor | Germany |  |  |  |  |  |  |
| 23 | Färberdistel, Saflor | Morocco | 11.6 | 25.8 | 6 | 2 | 100 | 833 |
| 24 | Färberdistel, Saflor | Paraguay | 18.9 | 24.8 | 8 | 2.7 | 190 | 1583 |
| 25 | Färberdistel, Saflor | Germany | 12.9 | 25.5 | 12 | 3.4 | 145 | 1208 |
| 26 | 1005 | Unknown | 10.1 | 29.7 | 8 | 2.8 | 125 | 1042 |
| 27 | RIO SECO | Portugal | 13.6 | 21.4 | 12 | 2.5 | 240 | 2000 |
| 28 | FALGUNI | Pakistan | 10.5 | 14.6 | 7 | 2.8 | 150 | 1250 |
| 29 | Frio | America | 11.8 | 21 | 8 | 2.9 | 475 | 3958 |
| 30 | N009 | Unknown | 11.6 | 21.6 | 10 | 2.5 | 290 | 2417 |
| 31 | Färberdistel, Saflor | Iran | 10.4 | 23.9 | 7 | 2.9 | 405 | 3375 |
| 32 | Färberdistel, Saflor | Iran | 12.8 | 20.9 | 11 | 3.2 | 270 | 2250 |
| 33 | URTUM | Egypt | 14.4 | 24.6 | 8 | 2.7 | 235 | 1958 |
| 34 | KUSAMBA | Pakistan | 14.9 | 24.8 | 17 | 6.5 | 150 | 1250 |
| 35 | KUSAMBA | Pakistan | 11.7 | 20.1 | 10 | 2.4 | 100 | 833 |
| 36 | TAGHALA GOLU | Iran | 11.8 | 23.4 | 11 | 3.4 | 180 | 1500 |
| 37 | KUSUM | India | 17.4 | 23.7 | 21 | 2.7 | 220 | 1833 |
| 38 | KUSAMBA | Pakistan | 15.3 | 24.4 | 12 | 2.2 |  |  |
| 39 | Färberdistel, Saflor | Morocco | 13.5 | 34.4 | 7 | 2.3 | 174 | 1450 |
| 40 | TASKENTSKIJ 51 | Russia | 9.63 | 15.1 | 5 | - | 180 | 1500 |
| 41 | N001 | Unknown | 9.82 | 25 | 9 | 4.6 | 280 | 2333 |
| 42 | DART | Unknown | 9.89 | 24.9 | 5 | 3.1 | 330 | 2750 |
| 43 | Färberdistel, Saflor | Unknown | 14 | 21 | 13 | 2.9 | 200 | 1667 |
| 44 | Färberdistel, Saflor | Unknown | 9.35 | 22.3 | 17 | 3.3 | 285 | 2375 |
| 45 | Färberdistel, Saflor | Unknown | 7.12 | 16.9 | 12 | 2.6 | 260 | 2167 |
| 46 | CEGLEDI A | Hungary | 18.7 | 26.5 | 25 | 2.2 | 147 | 1225 |
| 47 | Färberdistel, Saflor | Iran | 15.2 | 28.2 | 16 | 2.5 | 165 | 1375 |
| 48 | Färberdistel, Saflor | Iran | 9.45 | 19.4 | 13 | 3.8 | 45 | 375 |
| 49 | Färberdistel, Saflor | Iran | 14.2 | 26.9 | 13 | 2.5 | 100 | 833 |
| 50 | KUSUM | India | 11.4 | 30.2 | 12 | 2 | 170 | 1417 |
| 51 | CEGLEDI "A" | Unknown | 12.3 | 23.6 | 14 | 2.7 | 135 | 1125 |
| 52 | V.MAHMUDPUR-PUSA | India | 15.1 | 26.5 | 8 | 2.5 | 290 | 2417 |
| 53 | Gladki Borowski IHAR | Poland | 13.9 | 36.6 | 6 | 2.8 | 325 | 2708 |
| 54 | Färberdistel, Saflor | Iran | 10.7 | 25.6 | 15 | 2.4 | 390 | 3250 |
| 55 | Färberdistel, Saflor | Iran | 12.6 | 24.4 | 11 | 3 | 215 | 1792 |
| 56 | ANGOL "A" | Unknown | 14.4 | 27.3 | 9 | 4.3 | 187 | 1558 |
| 57 | JAPAN "A" | Unknown | 13.3 | 19.4 | 14 | 2.8 | 235 | 1958 |
| 58 | Färberdistel, Saflor | Azerbaijan | 11.4 | 21.4 | 11 | 3.1 | 450 | 3750 |
| 59 | Färberdistel, Saflor | N Korea | 11.9 | 10.8 | 16 | 1.3 | 360 | 3000 |
| 60 | MOSOMJ A | Unknown | 12.2 | 24.4 | 16 | 2.8 | 210 | 1750 |
| 61 | Färberdistel, Saflor | Sudan | 10.1 | 22.9 | 9 | 3.5 | 240 | 2000 |
| 62 | Färberdistel, Saflor | Unknown | 11.4 | 22.6 | 10 | 2.6 | 295 | 2458 |
| 63 | 55-633 | Unknown | 12.8 | 21.9 | 10 | 2.5 | 280 | 2333 |
| 64 | 55-624 | Unknown | 13.2 | 21.7 | 12 | 2.8 | 290 | 2417 |
| 65 | Färberdistel, Saflor | Spain | 11.6 | 18.7 | 10 | 1 | 300 | 2500 |
| 66 | Färberdistel, Saflor | Germany | 9.69 | 25.4 | 8 | 2.1 | 365 | 3042 |
| 67 | Färberdistel, Saflor | Unknown | 12.7 | 25.2 | 11 | 2.9 | 355 | 2958 |
| 68 | Färberdistel, Saflor | Germany | 16.7 | 22.4 | 12 | 2.5 | 330 | 2750 |
| 69 | Färberdistel, Saflor | Germany | 11.6 | 25.1 | 7 | 2.9 | 165 | 1375 |
| 70 | Färberdistel, Saflor | Germany | 10.7 | 17.8 | 8 | 1.4 | 680 | 5667 |
| 71 | Färberdistel, Saflor | Germany | 10.6 | 24 | 5 | 3.2 | 135 | 1125 |
| 72 | Draa Basse Tige | Unknown | 10.3 | 21.4 | 8 | 2.4 | 285 | 2375 |
| 73 | 54-336 | Unknown | 13.7 | 22.9 | 19 | 3.8 | 375 | 3125 |
| 74 | U.C.I. | America | 13.6 | 24 | 12 | 3.2 | 245 | 2042 |
| 75 | Färberdistel, Saflor | Unknown | 11.5 | 22.9 | 10 | 2.6 | 395 | 3292 |
| 76 | Färberdistel, Saflor | Germany | 9.3 | 24.5 | 11 | 2.2 | 182 | 1517 |
| 77 | Färberdistel, Saflor | Germany | 8.7 | 19 | 7 | 2.2 | 2256 | 1875 |
| 78 | Färberdistel, Saflor | Germany | 8..8 | 26.8 | 10 | 2.5 | 140 | 1167 |
| 79 | Färberdistel, Saflor | Germany | 12.9 | 27.9 | 16 | 2.9 | 165 | 1375 |
| 80 | Färberdistel, Saflor | Germany | 9.4 | 21.3 | 13 | 2.7 | 155 | 1292 |
| 81 | Färberdistel, Saflor | Ethiopia | 12.1 | 24.1 | 7 | 2.5 | 240 | 2000 |
| 82 | Moyen du Draa | Unknown | 15.2 | 25.9 | 14 | 1.9 | 165 | 1375 |
| 83 | - | Unknown | 11.4 | 28.2 | 5 | 2.7 | 165 | 1375 |
| 84 | S-51 Selektion R.A. | Unknown | 10.8 | 24.8 | 9 | 2.5 | 340 | 2833 |
| 85 | S. Draa | Unknown | 12.7 | 23.7 | 13 | 2.5 | 155 | 1292 |
| 86 | - | Sudan | 11.6 | 25.5 | 12 | 3.4 | 295 | 2458 |
| 87 | - | Spain | 9.56 | 19.7 | 8 | 2.6 | 245 | 2042 |
| 88 | - | Unknown | 12.7 | 24.5 | 6 | 1.9 | 22.5 | 1875 |
| 89 | Mogami Beni | Unknown | 12.7 | 17 | 15 | 2.3 | 195 | 1625 |
| 90 | - | Germany | 10.9 | 20.7 | 14 | 2.5 | 330 | 2750 |
| 91 | - | Germany | 14.7 | 22.5 | 14 | 2.5 | 225 | 1875 |
| 92 | - | N Korea | 9.4 | 19 | 7 | 3.3 | 350 | 2917 |
| 93 | - | N Korea | 10.3 | 18.2 | 10 | 2.1 | 147 | 1225 |
| 94 | Nagykálloi-A | Hungry | 9.1 | 28.8 | 7 | 2.4 | 175 | 1458 |
| 95 | Japan-A | Japan | 11 | 25.6 | 7 | 2 | 110 | 917 |
| 96 | - | N Korea | 12.1 | 29.9 | 9 | 2.6 | 185 | 1542 |
| 97 | safran (tadz.) | Tajikistan | 9.4 | 21.8 | 18 | 1.9 | 250 | 2083 |
| 98 | - | Unknown | 14.5 | 30.4 | 17 | 3.3 | 400 | 3333 |
| 99 | - | Unknown | 9.1 | 34.1 | 10 | 2.2 | 175 | 1458 |
| 100 | - | Mexico | 10.1 | 23.4 | 8 | 1.6 | 145 | 1208 |
| 101 | - | Mexico | 10.9 | 26.5 | 7 | 1.9 | 205 | 1708 |
| 102 | - | Mexico | 11.2 | 9.2 | 12 | 2.4 | 160 | 1333 |
| 103 | - | Mexico | 9.7 | 27.8 | 6 | 3.4 | 175 | 1458 |
| 104 | - | Mexico | 12.9 | 27.4 | 6 | 2.9 | 335 | 2792 |
| 105 | - | Mexico | 10.1 | 30.6 | 7 | 3.5 | 250 | 2083 |
| 106 | - | Mexico | 8.89 | 24.7 | 9 | 3.1 | 265 | 2208 |
| 107 | - | Mexico | 11.6 | 21.3 | 10 | 3.2 | 510 | 4250 |
| 108 | - | Mexico | 10.4 | 23.1 | 11 | 2.4 | 490 | 4083 |
| 109 | - | Mexico | 10.7 | 26.3 | 11 | 2.8 | 15 | 125 |
| 110 | - | Mexico | 9.2 | 21 | 7 | 2.2 | 80 | 667 |
| 111 | - | Mexico | 6.59 | 20.6 | 5 | 2.3 | 290 | 2417 |
| 112 | - | Mexico | 9.59 | 19.4 | 9 | 2.9 | 110 | 917 |
| 113 | - | Mexico | 10.7 | 24.5 | 7 | 2.4 | 505 | 4208 |
| 114 | - | Mexico | 8.4 | 26.2 | 7 | 3.2 | 460 | 3833 |
| 115 | - | Mexico | 10.4 | 21.2 | 7 | 1.7 | 375 | 3125 |
| 116 | - | Mexico | 10.5 | 22.9 | 10 | 2.7 | 530 | 4417 |
| 117 | - | Mexico | 10.9 | 27.3 | 11 | 3 | 315 | 2625 |
| 118 | - | Mexico | 13.7 | 24.6 | 9 | 3 | 405 | 3375 |
| 119 | - | Mexico | 11.6 | 25.5 | 8 | 3.2 | 660 | 5500 |
| 120 | - | Mexico | 11.2 | 19.5 | 10 | 3.3 | 470 | 3917 |
| 121 | - | Mexico | 10 | 22.4 | 8 | 3.1 | 385 | 3208 |
| 122 | - | Mexico | 6.9 | 23.1 | 10 | 2.8 | 200 | 1667 |
| 123 | Soffe | Iran | 14.8 | 32.5 | 22 | 2.1 | 80 | 667 |
| 124 | Golmehr | Iran | 16.6 | 27.9 | 8 | 2.6 | 460 | 3833 |
| 125 | Padideh | Iran | 13.8 | 28.4 | 11 | 2.3 | 145 | 1208 |
| 126 | Parnian | Iran | 8.1 | 29 | 8 | 3.3 | 500 | 4167 |
| 127 | Goldasht | Iran | 9.4 | 35.8 | 8 | 3.8 | 350 | 2917 |