

| Accession name | Haplotype | Group | Ph | SL | SLN | GN | TGW | Varieties | Country | Environment |
|-----------------|-----------|-------|-----|----|-----|----|-----|-----------|---------|-------------|
| XIN1-147 | Hap-B-III | 1 | 116 | 9 | 16 | 34 | 36 | landrace | China | 2018XX |
| XIN1-150 | Hap-B-III | 1 | 121 | 10 | 17 | 32 | 25 | landrace | China | 2018XX |
| XIN148 | Hap-B-III | 1 | 129 | 10 | 18 | 39 | 24 | landrace | China | 2018XX |
| XIN160 | Hap-B-III | 1 | 118 | 9 | 16 | 37 | 27 | landrace | China | 2018XX |
| XIN163 | Hap-B-III | 1 | 123 | 13 | 19 | 45 | 10 | landrace | China | 2018XX |
| XIN180 | Hap-B-III | 1 | 131 | 10 | 18 | 41 | 35 | landrace | China | 2018XX |
| XIN182 | Hap-B-III | 1 | 117 | 8 | 16 | 32 | 38 | landrace | China | 2018XX |
| XIN207 | Hap-B-III | 1 | 125 | 10 | 16 | 34 | 23 | landrace | China | 2018XX |
| XIN218 | Hap-B-III | 1 | 124 | 11 | 16 | 35 | 19 | landrace | China | 2018XX |
| XIN224 | Hap-B-III | 1 | 125 | 10 | 18 | 43 | 31 | landrace | China | 2018XX |
| XJ5 | Hap-B-III | 1 | 121 | 8 | 16 | 38 | 45 | landrace | China | 2018XX |
| YN3 | Hap-B-III | 1 | 128 | 11 | 20 | 42 | 28 | landrace | China | 2018XX |
| YN2 | Hap-B-III | 1 | 129 | 12 | 20 | 43 | 26 | landrace | China | 2018XX |
| YN20 | Hap-B-III | 1 | 127 | 12 | 20 | 44 | 41 | landrace | China | 2018XX |
| YN23 | Hap-B-III | 1 | 123 | 11 | 19 | 42 | 25 | landrace | China | 2018XX |
| YN6 | Hap-B-III | 1 | 119 | 10 | 18 | 42 | 28 | landrace | China | 2018XX |
| baihaumai | Hap-B-III | 1 | 120 | 9 | 17 | 40 | 27 | landrace | China | 2018XX |
| baimangmai | Hap-B-III | 1 | 137 | 8 | 15 | 36 | 25 | landrace | China | 2018XX |
| baipu | Hap-B-III | 1 | 120 | 7 | 16 | 40 | 36 | landrace | China | 2018XX |
| bendimai | Hap-B-III | 1 | 137 | 10 | 16 | 38 | 23 | landrace | China | 2018XX |
| caijiangmai | Hap-B-III | 1 | 129 | 9 | 19 | 41 | 28 | landrace | China | 2018XX |
| dabaimai | Hap-B-III | 1 | 110 | 8 | 16 | 36 | 37 | landrace | China | 2018XX |
| dahongmai | Hap-B-III | 1 | 114 | 10 | 14 | 29 | 23 | landrace | China | 2018XX |
| dazibai | Hap-B-III | 1 | 116 | 9 | 16 | 40 | 27 | landrace | China | 2018XX |
| heputou | Hap-B-III | 1 | 141 | 10 | 15 | 44 | 35 | landrace | China | 2018XX |
| heshangmai | Hap-B-III | 1 | 127 | 6 | 15 | 42 | 20 | landrace | China | 2018XX |
| hongheshangtou | Hap-B-III | 1 | 132 | 6 | 18 | 46 | 28 | landrace | China | 2018XX |
| hongkeyoumang | Hap-B-III | 1 | 142 | 10 | 15 | 39 | 32 | landrace | China | 2018XX |
| hongmai | Hap-B-III | 1 | 139 | 13 | 17 | 38 | 32 | landrace | China | 2018XX |
| hongxiuzi | Hap-B-III | 1 | 116 | 6 | 18 | 42 | 14 | landrace | China | 2018XX |
| huxumai | Hap-B-III | 1 | 120 | 7 | 16 | 38 | 33 | landrace | China | 2018XX |
| huangguaxian | Hap-B-III | 1 | 121 | 8 | 15 | 37 | 27 | landrace | China | 2018XX |
| jiyumai | Hap-B-III | 1 | 110 | 6 | 17 | 49 | 24 | landrace | China | 2018XX |
| jiangdongmen | Hap-B-III | 1 | 113 | 9 | 13 | 31 | 32 | landrace | China | 2018XX |
| keshibaipi | Hap-B-III | 1 | 118 | 9 | 17 | 36 | 27 | landrace | China | 2018XX |
| kangdingxiaomai | Hap-B-III | 1 | 131 | 10 | 18 | 42 | 22 | landrace | China | 2018XX |
| lanxizaoxiaomai | Hap-B-III | 1 | 114 | 8 | 18 | 42 | 25 | landrace | China | 2018XX |
| liuzhutou | Hap-B-III | 1 | 135 | 6 | 16 | 33 | 30 | landrace | China | 2018XX |
| mala | Hap-B-III | 1 | 127 | 11 | 20 | 42 | 30 | landrace | China | 2018XX |
| meiqianwu | Hap-B-III | 1 | 142 | 11 | 16 | 37 | 25 | landrace | China | 2018XX |
| nuomai | Hap-B-III | 1 | 123 | 9 | 17 | 42 | 29 | landrace | China | 2018XX |
| shanmai | Hap-B-III | 1 | 129 | 9 | 15 | 33 | 30 | landrace | China | 2018XX |
| shanglinxiaomai | Hap-B-III | 1 | 144 | 12 | 18 | 42 | 28 | landrace | China | 2018XX |

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|-----------------|-----------|---|-------|------|------|------|----|----------|-------|--------|
| tumai | Hap-B-III | 1 | 141 | 10 | 17 | 38 | 28 | landrace | China | 2018XX |
| wuxumai | Hap-B-III | 1 | 137 | 10 | 16 | 37 | 25 | landrace | China | 2018XX |
| xinganxiaomai | Hap-B-III | 1 | 135 | 9 | 15 | 34 | 26 | landrace | China | 2018XX |
| yangmai | Hap-B-III | 1 | 120 | 10 | 18 | 42 | 32 | landrace | China | 2018XX |
| youmangbaifu | Hap-B-III | 1 | 139 | 9 | 17 | 38 | 21 | landrace | China | 2018XX |
| yuqiumai | Hap-B-III | 1 | 133 | 9 | 18 | 40 | 48 | landrace | China | 2018XX |
| baihaumai | Hap-B-III | 1 | 154.8 | 9 | 19.4 | 65.6 | | landrace | China | xx2019 |
| baimangmai | Hap-B-III | 1 | 157 | 9.4 | 18.8 | 46.4 | | landrace | China | xx2019 |
| baipu | Hap-B-III | 1 | 136.2 | 7.1 | 18 | 49.2 | | landrace | China | xx2019 |
| bendimai | Hap-B-III | 1 | 159.2 | 10.6 | 16.6 | 35.8 | | landrace | China | xx2019 |
| caijiangmai | Hap-B-III | 1 | 150.6 | 9.1 | 18 | 50.2 | | landrace | China | xx2019 |
| dabaimai | Hap-B-III | 1 | 145 | 8.6 | 18 | 49.2 | | landrace | China | xx2019 |
| dahongmai | Hap-B-III | 1 | 139.4 | 11.4 | 17 | 36.4 | | landrace | China | xx2019 |
| dazibai | Hap-B-III | 1 | 133.6 | 9.5 | 16.4 | 41.6 | | landrace | China | xx2019 |
| heputou | Hap-B-III | 1 | 147.2 | 10.7 | 17 | 50.2 | | landrace | China | xx2019 |
| heshangmai | Hap-B-III | 1 | 141.8 | 5.8 | 15.2 | 44.6 | | landrace | China | xx2019 |
| hongheshangtou | Hap-B-III | 1 | 146.6 | 6.8 | 18.4 | 48.4 | | landrace | China | xx2019 |
| hongkeyoumang | Hap-B-III | 1 | 158 | 10.4 | 17.4 | 53 | | landrace | China | xx2019 |
| hongmai | Hap-B-III | 1 | 152.6 | 12.8 | 19 | 54.4 | | landrace | China | xx2019 |
| hongxiuzi | Hap-B-III | 1 | 139 | 6.8 | 18.4 | 45.8 | | landrace | China | xx2019 |
| huxumai | Hap-B-III | 1 | 143.6 | 8 | 19.4 | 57.6 | | landrace | China | xx2019 |
| huangguaxian | Hap-B-III | 1 | 135.8 | 9.2 | 16.8 | 39.2 | | landrace | China | xx2019 |
| jiyumai | Hap-B-III | 1 | 138.4 | 6.3 | 19.6 | 56.4 | | landrace | China | xx2019 |
| jiangdongmen | Hap-B-III | 1 | 132.2 | 9.5 | 14.6 | 36.4 | | landrace | China | xx2019 |
| kangdingxiaomai | Hap-B-III | 1 | 136.6 | 10.1 | 17.2 | 41.6 | | landrace | China | xx2019 |
| lanxizaoxiaomai | Hap-B-III | 1 | 137 | 7.8 | 17 | 41.4 | | landrace | China | xx2019 |
| liuzhutou | Hap-B-III | 1 | 139.4 | 6.4 | 18 | 38.2 | | landrace | China | xx2019 |
| mala | Hap-B-III | 1 | 154.6 | 11.9 | 17.6 | 37.8 | | landrace | China | xx2019 |
| meiqianwu | Hap-B-III | 1 | 142.6 | 10.2 | 17 | 42.4 | | landrace | China | xx2019 |
| nuomai | Hap-B-III | 1 | 145.2 | 10 | 15.2 | 50.4 | | landrace | China | xx2019 |
| shanmai | Hap-B-III | 1 | 131.8 | 8.8 | 16.4 | 33.4 | | landrace | China | xx2019 |
| shanglinxiaomai | Hap-B-III | 1 | 147.6 | 11.8 | 17 | 53.6 | | landrace | China | xx2019 |
| tumai | Hap-B-III | 1 | 144.2 | 11.2 | 16.8 | 55.8 | | landrace | China | xx2019 |
| wuxumai | Hap-B-III | 1 | 150.2 | 10.4 | 17 | 48.4 | | landrace | China | xx2019 |
| XIN1-147 | Hap-B-III | 1 | 143.6 | 9.7 | 17.8 | 34.2 | | landrace | China | xx2019 |
| XIN1-150 | Hap-B-III | 1 | 162.4 | 10.4 | 17 | 34 | | landrace | China | xx2019 |
| XIN148 | Hap-B-III | 1 | 163.2 | 10.8 | 19 | 32.6 | | landrace | China | xx2019 |
| XIN160 | Hap-B-III | 1 | 134.8 | 9.2 | 18.8 | 36.2 | | landrace | China | xx2019 |
| XIN163 | Hap-B-III | 1 | 159.4 | 12.4 | 17 | 35.6 | | landrace | China | xx2019 |
| XIN180 | Hap-B-III | 1 | 155.8 | 12.1 | 18.2 | 30 | | landrace | China | xx2019 |
| XIN182 | Hap-B-III | 1 | 143 | 9.2 | 19.4 | 30.8 | | landrace | China | xx2019 |
| XIN207 | Hap-B-III | 1 | 157 | 11 | 15.8 | 43.4 | | landrace | China | xx2019 |
| XIN218 | Hap-B-III | 1 | 164 | 11.9 | 17 | 43.2 | | landrace | China | xx2019 |
| XIN224 | Hap-B-III | 1 | 149.8 | 11.4 | 19.2 | 38 | | landrace | China | xx2019 |

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|-----------------|-----------|---|-------|-------|------|------|------|------------|-------|--------|
| XJ5 | Hap-B-III | 1 | 139.4 | 11.4 | 20 | 44.8 | | landrace | China | xx2019 |
| xinganxiaomai | Hap-B-III | 1 | 146.2 | 9.1 | 15.8 | 45 | | landrace | China | xx2019 |
| yangmai | Hap-B-III | 1 | 132.6 | 9.8 | 19.4 | 52.2 | | landrace | China | xx2019 |
| youmangbaifu | Hap-B-III | 1 | 131.8 | 8.1 | 19 | 51.2 | | landrace | China | xx2019 |
| yuqiumai | Hap-B-III | 1 | 136.8 | 8.4 | 17.2 | 48.2 | | landrace | China | xx2019 |
| baihaumai | Hap-B-III | 1 | 126 | 9.1 | 18.2 | 53 | 27.3 | landrace | China | xx2015 |
| baipu | Hap-B-III | 1 | 117.4 | 7.1 | 16.8 | 45 | 35.7 | landrace | China | xx2015 |
| bendimai | Hap-B-III | 1 | 120.4 | 8.8 | 17 | 30.2 | 27.3 | landrace | China | xx2015 |
| caijiangmai | Hap-B-III | 1 | 138.2 | 11.74 | 21.6 | 55.2 | 32.9 | landrace | China | xx2015 |
| dabaimai | Hap-B-III | 1 | 136.4 | 12.1 | 19.8 | 54.4 | 30.6 | landrace | China | xx2015 |
| dahongmai | Hap-B-III | 1 | 109.2 | 12.2 | 17.4 | 39 | 50.9 | landrace | China | xx2015 |
| dazibai | Hap-B-III | 1 | 114.6 | 11.5 | 18.2 | 56 | 31.6 | landrace | China | xx2015 |
| heputou | Hap-B-III | 1 | 141 | 10.4 | 17.2 | 38 | 29.4 | landrace | China | xx2015 |
| heshangmai | Hap-B-III | 1 | 133.4 | 6.9 | 18.2 | 55.6 | 31.5 | landrace | China | xx2015 |
| hongheshangtou | Hap-B-III | 1 | 139.8 | 6.4 | 17.4 | 42.8 | 39.6 | landrace | China | xx2015 |
| honghuazao | Hap-B-III | 1 | 150.4 | 11.06 | 19.4 | 54.6 | 29.9 | landrace | China | xx2015 |
| hongkejiang | Hap-B-III | 1 | 115.6 | 9.7 | 18.2 | 62.4 | 28.6 | landrace | China | xx2015 |
| hongkeyoumang | Hap-B-III | 1 | 133.2 | 11.26 | 17 | 34.4 | 28 | landrace | China | xx2015 |
| hongmai | Hap-B-III | 1 | 118.4 | 13.44 | 20.2 | 63.6 | 31.4 | landrace | China | xx2015 |
| hongxiuzi | Hap-B-III | 1 | 119.4 | 6.6 | 17.4 | 39.4 | 36.4 | landrace | China | xx2015 |
| huxumai | Hap-B-III | 1 | 116.6 | 9.08 | 19.8 | 54.2 | 37.9 | landrace | China | xx2015 |
| huangguaxian | Hap-B-III | 1 | 128.2 | 8 | 16.6 | 41 | 32.7 | landrace | China | xx2015 |
| jiyumai | Hap-B-III | 1 | 129.2 | 6.98 | 17.6 | 35.4 | 27.5 | landrace | China | xx2015 |
| jiangdongmen | Hap-B-III | 1 | 135.2 | 10 | 15.8 | 46.8 | 28.3 | landrace | China | xx2015 |
| kangdingxiaomai | Hap-B-III | 1 | 128.2 | 9.8 | 17.4 | 35.4 | 34.3 | landrace | China | xx2015 |
| lanxizaoxiaomai | Hap-B-III | 1 | 114.4 | 8.3 | 17.4 | 41.2 | 42.3 | landrace | China | xx2015 |
| liuzhutou | Hap-B-III | 1 | 123.2 | 7.8 | 18.8 | 41.6 | 36.2 | landrace | China | xx2015 |
| meiqianwu | Hap-B-III | 1 | 129.2 | 11.1 | 17 | 49.2 | 34.2 | landrace | China | xx2015 |
| nuomai | Hap-B-III | 1 | 130 | 10.8 | 17 | 56.4 | | landrace | China | xx2015 |
| shanmai | Hap-B-III | 1 | 124.8 | 7.16 | 13.6 | 24.8 | 33.6 | landrace | China | xx2015 |
| shanglinxiaomai | Hap-B-III | 1 | 141.6 | 13.8 | 20.4 | 65.4 | | landrace | China | xx2015 |
| tumai | Hap-B-III | 1 | 139.8 | 11.34 | 18.6 | 50 | 30 | landrace | China | xx2015 |
| wuxumai | Hap-B-III | 1 | 133.4 | 11.88 | 18.4 | 47.4 | 31 | landrace | China | xx2015 |
| xinganxiaomai | Hap-B-III | 1 | 140.4 | 10.38 | 15.6 | 38 | 27.9 | landrace | China | xx2015 |
| youzitou | Hap-B-III | 1 | 149 | 6.72 | 20 | 56.4 | 33.5 | landrace | China | xx2015 |
| yuqiumai | Hap-B-III | 1 | 135 | 9.74 | 17.6 | 42.8 | 31.4 | landrace | China | xx2015 |
| beijing8hao | Hap-B-III | 1 | 117 | 7 | 13 | 32 | 36 | commercial | China | 2018XX |
| bima4hao | Hap-B-III | 1 | 114 | 7 | 19 | 43 | 30 | commercial | China | 2018XX |
| botamuS70 | Hap-B-III | 1 | 77 | 9 | 17 | 41 | 12 | commercial | China | 2018XX |
| jinan8hao | Hap-B-III | 1 | 107 | 7 | 15 | 30 | 39 | commercial | China | 2018XX |
| kefeng3hao | Hap-B-III | 1 | 99 | 12 | 19 | 43 | 38 | commercial | China | 2018XX |
| kehan10hao | Hap-B-III | 1 | 104 | 13 | 17 | 37 | 24 | commercial | China | 2018XX |
| machang2hao | Hap-B-III | 1 | 86 | 8 | 16 | 39 | 44 | commercial | China | 2018XX |
| neixiang5hao | Hap-B-III | 1 | 116 | 9 | 15 | 38 | 37 | commercial | China | 2018XX |

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|--------------------|-----------|---|-------|-------|------|------|------|------------|-------|--------|
| ningchun4hao | Hap-B-III | 1 | 91 | 11 | 20 | 50 | 29 | commercial | China | 2018XX |
| shanhe6hao | Hap-B-III | 1 | 122 | 10 | 17 | 38 | 28 | commercial | China | 2018XX |
| shannong1hao | Hap-B-III | 1 | 105 | 9 | 15 | 48 | 30 | commercial | China | 2018XX |
| wanmai50 | Hap-B-III | 1 | 71 | 8 | 19 | 44 | 54 | commercial | China | 2018XX |
| yuzhou8hao | Hap-B-III | 1 | 110 | 8 | 15 | 37 | 36 | commercial | China | 2018XX |
| yangmai158 | Hap-B-III | 1 | 79 | 8 | 15 | 41 | 36 | commercial | China | 2018XX |
| yuman15 | Hap-B-III | 1 | 118 | 11 | 20 | 45 | 46 | commercial | China | 2018XX |
| beijing8hao | Hap-B-III | 1 | 125.4 | 7.2 | 14.6 | 36 | | commercial | China | xx2019 |
| bima4hao | Hap-B-III | 1 | 134.2 | 6.7 | 15 | 36.4 | | commercial | China | xx2019 |
| ganmai8hao | Hap-B-III | 1 | 129.6 | 10.1 | 19.4 | 51.6 | | commercial | China | xx2019 |
| jinan8hao | Hap-B-III | 1 | 118.8 | 6.9 | 14.8 | 28.8 | | commercial | China | xx2019 |
| keshibaipi | Hap-B-III | 1 | 152.4 | 10.8 | 17.6 | 45.8 | | commercial | China | xx2019 |
| kefeng3hao | Hap-B-III | 1 | 114.2 | 14.1 | 19 | 49.2 | | commercial | China | xx2019 |
| kehan10hao | Hap-B-III | 1 | 126 | 13.6 | 19 | 53.8 | | commercial | China | xx2019 |
| kenda4hao | Hap-B-III | 1 | 145.4 | 11.4 | 21.2 | 44.2 | | commercial | China | xx2019 |
| machang2hao | Hap-B-III | 1 | 101.2 | 8.7 | 16.8 | 42.2 | | commercial | China | xx2019 |
| neixiang5hao | Hap-B-III | 1 | 144.8 | 10.2 | 18.6 | 48.8 | | commercial | China | xx2019 |
| ningchun4hao | Hap-B-III | 1 | 93.8 | 10.9 | 18.8 | 62.6 | | commercial | China | xx2019 |
| shanhe6hao | Hap-B-III | 1 | 132.2 | 8.9 | 17.4 | 48.2 | | commercial | China | xx2019 |
| shannong1hao | Hap-B-III | 1 | 132.2 | 8.8 | 15.2 | 44.4 | | commercial | China | xx2019 |
| wanmai50 | Hap-B-III | 1 | 82 | 9.9 | 20.4 | 64.8 | | commercial | China | xx2019 |
| yuzhou8hao | Hap-B-III | 1 | 113 | 8 | 15.4 | 42.8 | | commercial | China | xx2019 |
| yangmai158 | Hap-B-III | 1 | 93.2 | 9.2 | 16.8 | 45.6 | | commercial | China | xx2019 |
| yumai15 | Hap-B-III | 1 | 132 | 13 | 22 | 74.2 | | commercial | China | xx2019 |
| beijing8hao | Hap-B-III | 1 | 121.8 | 7.66 | 15.2 | 29.8 | 36.4 | commercial | China | xx2015 |
| bima4hao | Hap-B-III | 1 | 144 | 8.2 | 16 | 38.8 | 34.7 | commercial | China | xx2015 |
| ganmai8hao | Hap-B-III | 1 | 130.4 | 8.8 | 16.4 | 46.6 | 41.7 | commercial | China | xx2015 |
| keshibaipi | Hap-B-III | 1 | 135.2 | 11.76 | 18.2 | 45.2 | 28.1 | commercial | China | xx2015 |
| kefeng3hao | Hap-B-III | 1 | 127.8 | 16.5 | 22.8 | 62 | 28 | commercial | China | xx2015 |
| ningchun4hao | Hap-B-III | 1 | 94.8 | 12.12 | 19.4 | 55.6 | 38.9 | commercial | China | xx2015 |
| yangmai158 | Hap-B-III | 1 | 101.2 | 9.52 | 17.8 | 54 | 40.2 | commercial | China | xx2015 |
| πuka | Hap-B-III | 1 | 108 | 10 | 17 | 42 | 21 | commercial | China | 2018XX |
| biyumai | Hap-B-III | 1 | 129 | 9 | 15 | 34 | 32 | commercial | China | 2018XX |
| ganmai8hao | Hap-B-III | 1 | 117 | 10 | 18 | 47 | 38 | commercial | China | 2018XX |
| kenda4hao | Hap-B-III | 1 | 117 | 12 | 20 | 40 | 25 | commercial | China | 2018XX |
| XJ1 | Hap-B-II | 2 | 138 | 13 | 14 | 31 | 23 | commercial | China | 2018XX |
| XJ3 | Hap-B-II | 2 | 137 | 13 | 14 | 29 | 24 | commercial | China | 2018XX |
| XJ6 | Hap-B-II | 2 | 119 | 14 | 15 | 30 | 47 | commercial | China | 2018XX |
| huajiechangbaichan | Hap-B-II | 2 | 95 | 10 | 19 | 44 | 20 | commercial | China | 2018XX |
| xiaobaimang | Hap-B-II | 2 | 113 | 8 | 18 | 41 | 29 | commercial | China | 2018XX |
| zijiehong | Hap-B-II | 2 | 135 | 10 | 18 | 44 | 24 | commercial | China | 2018XX |
| huajiechangbaichan | Hap-B-II | 2 | 95.4 | 7.6 | 16.8 | 37.6 | | commercial | China | xx2019 |
| xizhangxiaomai1885 | Hap-B-II | 2 | 141.4 | 11.3 | 19 | 49.2 | | commercial | China | xx2019 |
| xiaobaimang | Hap-B-II | 2 | 130.6 | 8.5 | 15.4 | 33 | | commercial | China | xx2019 |

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|--------------------|----------|---|-------|-------|------|------|------|------------|-------|--------|
| XJ1 | Hap-B-II | 2 | 166 | 13.5 | 15.2 | 34 | | commercial | China | xx2019 |
| XJ3 | Hap-B-II | 2 | 170 | 17.9 | 16.4 | 38.8 | | commercial | China | xx2019 |
| XJ6 | Hap-B-II | 2 | 177.8 | 14.7 | 14.8 | 31.6 | | commercial | China | xx2019 |
| zijiehong | Hap-B-II | 2 | 152.4 | 10 | 16.2 | 38.2 | | commercial | China | xx2019 |
| huajiechangbaichan | Hap-B-II | 2 | 122.6 | 9.98 | 18.6 | 50.6 | 34.2 | commercial | China | xx2015 |
| shankecun | Hap-B-II | 2 | 136.6 | 12.84 | 15.4 | 30.6 | 51.3 | commercial | China | xx2015 |
| xiaobaimang | Hap-B-II | 2 | 127.6 | 9.5 | 15.2 | 34.4 | 41.2 | commercial | China | xx2015 |
| bainong3217 | Hap-B-II | 2 | 73 | 8 | 14 | 40 | 43 | commercial | China | 2018XX |
| bainong791 | Hap-B-II | 2 | 66 | 8 | 17 | 39 | 47 | commercial | China | 2018XX |
| boai7023 | Hap-B-II | 2 | 78 | 11 | 17 | 48 | 48 | commercial | China | 2018XX |
| chuanmai107 | Hap-B-II | 2 | 80 | 10 | 16 | 52 | 37 | commercial | China | 2018XX |
| chuanmai42 | Hap-B-II | 2 | 96 | 8 | 17 | 43 | 33 | commercial | China | 2018XX |
| dongfanghong3hao | Hap-B-II | 2 | 113 | 12 | 20 | 43 | 28 | commercial | China | 2018XX |
| een1hao | Hap-B-II | 2 | 104 | 12 | 19 | 44 | 38 | commercial | China | 2018XX |
| fengchan3hao | Hap-B-II | 2 | 104 | 10 | 19 | 58 | 31 | commercial | China | 2018XX |
| han4564 | Hap-B-II | 2 | 77 | 9 | 18 | 44 | 37 | commercial | China | 2018XX |
| jinan16 | Hap-B-II | 2 | 77 | 8 | 18 | 39 | 49 | commercial | China | 2018XX |
| jimai22 | Hap-B-II | 2 | 96 | 7 | 20 | 42 | 43 | commercial | China | 2018XX |
| jiman37 | Hap-B-II | 2 | 66 | 8 | 17 | 37 | 41 | commercial | China | 2018XX |
| jimai3hao | Hap-B-II | 2 | 94 | 7 | 15 | 35 | 41 | commercial | China | 2018XX |
| jinmai30 | Hap-B-II | 2 | 80 | 7 | 16 | 37 | 29 | commercial | China | 2018XX |
| jingnong79-13 | Hap-B-II | 2 | 88 | 8 | 17 | 40 | 36 | commercial | China | 2018XX |
| kanghuixianhong | Hap-B-II | 2 | 114 | 9 | 17 | 39 | 40 | commercial | China | 2018XX |
| kezhuang | Hap-B-II | 2 | 132 | 10 | 16 | 36 | 23 | commercial | China | 2018XX |
| kenjiu10hao | Hap-B-II | 2 | 114 | 11 | 18 | 42 | 34 | commercial | China | 2018XX |
| liaochn10hao | Hap-B-II | 2 | 106 | 10 | 15 | 44 | 30 | commercial | China | 2018XX |
| lianchn9hao | Hap-B-II | 2 | 111 | 10 | 17 | 42 | 25 | commercial | China | 2018XX |
| lumai11hao | Hap-B-II | 2 | 80 | 7 | 17 | 41 | 49 | commercial | China | 2018XX |
| lumai3hao | Hap-B-II | 2 | 84 | 9 | 19 | 43 | 51 | commercial | China | 2018XX |
| mianyang29 | Hap-B-II | 2 | 61 | 8 | 15 | 46 | 41 | commercial | China | 2018XX |
| ningmai13 | Hap-B-II | 2 | 74 | 8 | 17 | 41 | 27 | commercial | China | 2018XX |
| taishan1hao | Hap-B-II | 2 | 80 | 8 | 15 | 42 | 33 | commercial | China | 2018XX |
| wan7107 | Hap-B-II | 2 | 85 | 10 | 16 | 36 | 49 | commercial | China | 2018XX |
| xian8hao | Hap-B-II | 2 | 72 | 7 | 18 | 46 | 40 | commercial | China | 2018XX |
| xiannong39 | Hap-B-II | 2 | 72 | 9 | 16 | 39 | 34 | commercial | China | 2018XX |
| xindong20 | Hap-B-II | 2 | 65 | 7 | 16 | 42 | 22 | commercial | China | 2018XX |
| xinmai16 | Hap-B-II | 2 | 69 | 9 | 19 | 43 | 55 | commercial | China | 2018XX |
| yangmai2hao | Hap-B-II | 2 | 96 | 7 | 17 | 41 | 35 | commercial | China | 2018XX |
| yumai10 | Hap-B-II | 2 | 85 | 9 | 18 | 49 | 39 | commercial | China | 2018XX |
| zhengmai17 | Hap-B-II | 2 | 108 | 9 | 17 | 50 | 42 | commercial | China | 2018XX |
| zhengzhou5hao | Hap-B-II | 2 | 93 | 9 | 18 | 41 | 47 | commercial | China | 2018XX |
| zhongnong28 | Hap-B-II | 2 | 93 | 7 | 16 | 38 | 39 | commercial | China | 2018XX |
| zhoumai12 | Hap-B-II | 2 | 73 | 9 | 17 | 46 | 44 | commercial | China | 2018XX |
| zhoumai13 | Hap-B-II | 2 | 69 | 8 | 18 | 44 | 43 | commercial | China | 2018XX |

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|------------------|----------|---|-------|------|------|------|------|------------|-------|--------|
| zhoumai19 | Hap-B-II | 2 | 64 | 10 | 18 | 49 | 49 | commercial | China | 2018XX |
| bianong3217 | Hap-B-II | 2 | 85.8 | 9.4 | 16.6 | 45.6 | | commercial | China | xx2019 |
| bianng791 | Hap-B-II | 2 | 76 | 9 | 18.6 | 47 | | commercial | China | xx2019 |
| boai7023 | Hap-B-II | 2 | 82.6 | 10.8 | 19 | 53.4 | | commercial | China | xx2019 |
| chuanmai107 | Hap-B-II | 2 | 92.6 | 11.4 | 17.6 | 55.6 | | commercial | China | xx2019 |
| chuanmai42 | Hap-B-II | 2 | 117.6 | 8.5 | 17.8 | 42.4 | | commercial | China | xx2019 |
| dongfanghong3hao | Hap-B-II | 2 | 130.8 | 9.8 | 18.8 | 43.6 | | commercial | China | xx2019 |
| een1hao | Hap-B-II | 2 | 119.6 | 11.3 | 19.4 | 45.6 | | commercial | China | xx2019 |
| fengchan3hao | Hap-B-II | 2 | 140.4 | 9.7 | 19 | 66 | | commercial | China | xx2019 |
| han4564 | Hap-B-II | 2 | 87.6 | 8.5 | 17.8 | 45.4 | | commercial | China | xx2019 |
| jinan16 | Hap-B-II | 2 | 80.6 | 8.5 | 17 | 44.6 | | commercial | China | xx2019 |
| jimai22 | Hap-B-II | 2 | 121 | 6.2 | 15.8 | 40.4 | | commercial | China | xx2019 |
| jimai37 | Hap-B-II | 2 | 72.4 | 9.6 | 17.2 | 48.4 | | commercial | China | xx2019 |
| jimai3hao | Hap-B-II | 2 | 115.2 | 7.7 | 17.2 | 48.6 | | commercial | China | xx2019 |
| jinmai30 | Hap-B-II | 2 | 85.6 | 9.7 | 17.8 | 46.2 | | commercial | China | xx2019 |
| jingnong79-13 | Hap-B-II | 2 | 106.8 | 7.9 | 16.8 | 43.2 | | commercial | China | xx2019 |
| kanghuixianhong | Hap-B-II | 2 | 120 | 11.5 | 18.4 | 45 | | commercial | China | xx2019 |
| kezhuang | Hap-B-II | 2 | 157.4 | 9.3 | 15.4 | 33 | | commercial | China | xx2019 |
| kenjiu10hao | Hap-B-II | 2 | 143 | 13.7 | 21 | 59 | | commercial | China | xx2019 |
| liaochun10hao | Hap-B-II | 2 | 105.2 | 9.8 | 16.8 | 44.6 | | commercial | China | xx2019 |
| liaochuan9hao | Hap-B-II | 2 | 132.6 | 10.9 | 17.8 | 53.2 | | commercial | China | xx2019 |
| lumai11hao | Hap-B-II | 2 | 93 | 8.1 | 16.2 | 39.8 | | commercial | China | xx2019 |
| lumai3hao | Hap-B-II | 2 | 103.4 | 8 | 17.2 | 39.4 | | commercial | China | xx2019 |
| mianyang29 | Hap-B-II | 2 | 78.8 | 11.9 | 20.4 | 65.4 | | commercial | China | xx2019 |
| ningmai13 | Hap-B-II | 2 | 88.2 | 10 | 17 | 47.6 | | commercial | China | xx2019 |
| tanshan1hao | Hap-B-II | 2 | 102.6 | 7 | 15.8 | 38.4 | | commercial | China | xx2019 |
| wan7107 | Hap-B-II | 2 | 100.4 | 10.4 | 16.4 | 44.4 | | commercial | China | xx2019 |
| xian8hao | Hap-B-II | 2 | 78.6 | 7.7 | 15.2 | 40.8 | | commercial | China | xx2019 |
| xiannong39 | Hap-B-II | 2 | 76.6 | 9.1 | 17.4 | 46.2 | | commercial | China | xx2019 |
| xindong20 | Hap-B-II | 2 | 73.6 | 8 | 16.4 | 49.8 | | commercial | China | xx2019 |
| xinmai16 | Hap-B-II | 2 | 76.2 | 10.2 | 20.2 | 53.8 | | commercial | China | xx2019 |
| yangmai2hao | Hap-B-II | 2 | 110.8 | 9.3 | 17.6 | 51.4 | | commercial | China | xx2019 |
| yumai10hao | Hap-B-II | 2 | 81.4 | 9.7 | 18.2 | 57.8 | | commercial | China | xx2019 |
| zhengmai17 | Hap-B-II | 2 | 128 | 8.8 | 17.8 | 48 | | commercial | China | xx2019 |
| zhengzhou5hao | Hap-B-II | 2 | 101.8 | 9.2 | 18 | 46.4 | | commercial | China | xx2019 |
| zhongnong28 | Hap-B-II | 2 | 118.6 | 6.3 | 17.8 | 43 | | commercial | China | xx2019 |
| zhoumai12 | Hap-B-II | 2 | 81.6 | 9.8 | 18.6 | 52.2 | | commercial | China | xx2019 |
| zhoumai13 | Hap-B-II | 2 | 73.2 | 9.1 | 18.6 | 53 | | commercial | China | xx2019 |
| zhoumai19 | Hap-B-II | 2 | 77.8 | 11.7 | 21.2 | 68.2 | | commercial | China | xx2019 |
| bainong3217 | Hap-B-II | 2 | 81.6 | 8.9 | 17 | 43.8 | 27.4 | commercial | China | xx2015 |
| boai7023 | Hap-B-II | 2 | 119.2 | 10.1 | 17.8 | 45.8 | 40.1 | commercial | China | xx2015 |
| dongfanghong3hao | Hap-B-II | 2 | 131.6 | 9.32 | 18.2 | 44.4 | 39.4 | commercial | China | xx2015 |
| fengchan3hao | Hap-B-II | 2 | 105.4 | 8.4 | 18.6 | 48.4 | 28.9 | commercial | China | xx2015 |
| jinan17 | Hap-B-II | 2 | 82.6 | 10.2 | 18 | 51.2 | 35.2 | commercial | China | xx2015 |

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|-----------------|----------|---|-------|-------|------|------|------|------------|-------|--------|
| jimai22 | Hap-B-II | 2 | 103.6 | 6.8 | 16.6 | 35.6 | 47.9 | commercial | China | xx2015 |
| kanghuixianhong | Hap-B-II | 2 | 109.8 | 10.1 | 18.6 | 44.2 | 44 | commercial | China | xx2015 |
| ningmai13 | Hap-B-II | 2 | 77.2 | 10.04 | 17 | 58.4 | 40 | commercial | China | xx2015 |
| taishan1hao | Hap-B-II | 2 | 103.8 | 9.2 | 18.2 | 47 | 42.1 | commercial | China | xx2015 |
| wan7107 | Hap-B-II | 2 | 105.2 | 11.24 | 17 | 46.4 | 37.5 | commercial | China | xx2015 |
| xian8hao | Hap-B-II | 2 | 82 | 8.6 | 17.6 | 38.2 | 43.5 | commercial | China | xx2015 |
| yumai10hao | Hap-B-II | 2 | 89.2 | 10 | 18.6 | 56 | 39.3 | commercial | China | xx2015 |
| zhongnong28 | Hap-B-II | 2 | 109.4 | 7.3 | 18 | 50 | 30.5 | commercial | China | xx2015 |