Report to:
Chinese Association of Zoological Gardens (CAZG)
Giant Panda Office, Department of Wildlife Conservation, State Forestry Administration
Giant Panda Conservation Foundation (GPCF)

2012 Breeding and Management Recommendations
and
Summary of the Status of the Giant Panda
Ex Situ Population

8 - 10 November 2011
Changsha, China

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Executive Summary

This is a report on the meeting held 8 - 10 November 2011 in Changsha, China to update the analysis of the *ex situ* population of giant pandas and develop breeding recommendations for the 2012 breeding season. This is the tenth annual set of genetic management recommendations developed for giant pandas.

The current *ex situ* population of giant pandas consists of 333 animals (151 males, 180 females, 2 unsexed pandas) located in 54 institutions worldwide. In 2011 there were 25 births and 8 deaths.

The genetic status of the population is currently healthy, with 50 founders represented and another 15 that could be genetically represented if they were to successfully breed. There are only 5 inbred animals with inbreeding coefficients > 3% in the population.

There are 60 giant pandas in the studbook with unknown or uncertain sires. Most of these are pandas that were born in 2006 or later. The result is that 12% of the gene pool of the *ex situ* population is derived from uncertain ancestry.

Molecular genetic analyses must continue to be used to confirm the parentage of these pandas as well as each year's new cubs before the next set of genetic management recommendations is made. This report contains the list of giant pandas that need to have their paternity verified (see page 12). Plans should continue to resolve as many of these uncertainties within the next year as possible.

Population growth in 2011 was 5%, lower than the average of over 11% for the past six years. The slower growth was the result of focusing on breeding primarily the genetically valuable animals, rather than all animals.

The current population goal for the giant panda *ex situ* population is **to maintain a target population of 400-600 giant pandas that retains at least 90% gene diversity of the wild population for 200 years**. A population of this size and genetic composition should be able to provide animals for reintroduction efforts if needed in the future.

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Ex Situ Giant Panda Management Program

Introduction

This is a report on the meeting held 8 - 10 November 2011 in Changsha, China to update the analysis and breeding plan of the *ex situ* population of giant pandas. Workshop participants updated the studbook and identified the females to be bred, and the males to which they should breed in 2012. The meeting was organized by the Chinese Association of Zoological Gardens (CAZG), and facilitated by the IUCN Conservation Breeding Specialist Group (CBSG).

The goals of the technical workshop were to:
- update the studbook with reports from all participating institutions;
- update the demographic and genetic analyses of the *ex situ* population; and
- formulate recommendations for breeding and management to promote these goals.

Population Goals

In 2009 the Technical Committee revised the program goal to maintain at least 90% gene diversity for 200 years with a target population size of approximately 500 (400-600) giant pandas. A longer timeline was adopted due to the uncertainty surrounding the possible significant threats of climate change and habitat destruction. The rate of growth toward this new target size can be slowed, and increased effort will be placed in genetic management and natural reproductive and parental behaviors. Genetic management is the most effective method of maintaining a genetically viable *ex situ* population capable of supporting a wild panda population. The current population of 333 giant pandas needs to increase by 167 to reach the goal of 500 pandas (Figure 1).
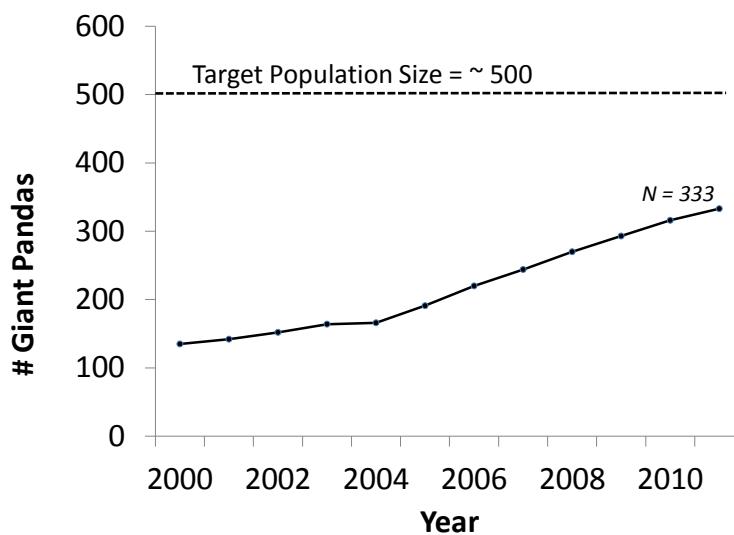
Figure 1. Growth of the *ex situ* giant panda population from 2000 to 2011.

Status of Captive Population

Data Analysis and Pedigree Assumptions

Data were taken from the 6 November 2011 version of the *International Giant Panda Studbook* compiled by Xie Zhong, CAZG, using the ISIS Single Population Analysis and Record Keeping System (SPARKS) v1.6 software program. An analytical studbook (see below) was created in SPARKS v1.6, and PMx v1.0 software (Ballou, Lacy and Pollak) was used to conduct both demographic and genetic analyses (see Appendix B for more information). Data were current through the day of the workshop, as the studbook was updated during the workshop by institutional representatives.

Paternity is uncertain for many animals in the studbook. For many of these cases, females were first mated naturally and were then artificially inseminated. In others, lack of record-keeping in the early studbook years resulted in uncertainty about which males sired which cubs. Although molecular analyses have successfully identified the paternity of many pandas, there are still 60 pandas with uncertain paternity that affect the living gene pool, many of which were born between 2006 and 2011 (listed in Appendix B). The uncertain paternity of these 60 individuals results in 12% of the living gene pool being unknown.

SPARKS v1.6 includes the option to list the studbook numbers of the potential sires along with the probability of each of them being the real sire. These uncertain sires can then be exported to PMx, where the pedigree analysis will take into consideration the uncertainties and calculate the kinships based on the estimated paternity across the uncertain sires (see Lacy *et al.* 2011 for the methods).

While the ability to include such uncertainty in the analyses are useful, and even necessary to proceed with developing breeding recommendations, the genetic analyses for this *ex situ* population will not be completely accurate until the paternities are known for certain through molecular genetic analyses.

Molecular analyses are needed to resolve the paternity of these 60 pandas as soon as possible since genetic management recommendations will not be accurate with these unknowns in the pedigree.

Demographic Status

The current *ex situ* population of giant pandas consists of 333 animals (151 males, 180 females, 2 unsexed pandas) located in 54 institutions worldwide. In 2011 there were 25 births and 8 deaths.

Reproduction over the last several years has resulted in an annual population increase of 9-15% for 2005 to 2010. In 2011 the growth rate was lower (5% increase) – presumably due to the increased focus on producing genetically valuable animals rather than large numbers. The age structure of the living population is healthy and indicative of a population that would be expected to continue to grow (Figure 2). A greater proportion of adult pandas have reproduced, especially females (from 41% in 2002 to 61% in 2011), which contributes positively to growth as well as the effective population size (N_e) (N_e/N increased from 0.22 in 2002 to 0.27 by 2011).

Females are generally reproductive from 5-20 years of age, while male fertility can continue into the 20s. Generation time for the population is 10.9 years. Litters consist of 1-2 cubs with almost equal frequency (two litters of triplets have been observed), producing a mean litter size of 1.5 cubs. About 50% of males survive to age 14, 25% survive to age 19, and only about 10% survive to age 29; female survivorship is slightly better, with about 50% reaching age 17, 25% surviving to age 23, and 10% surviving to age 31. These values include wild-caught pandas whose ages are estimated.
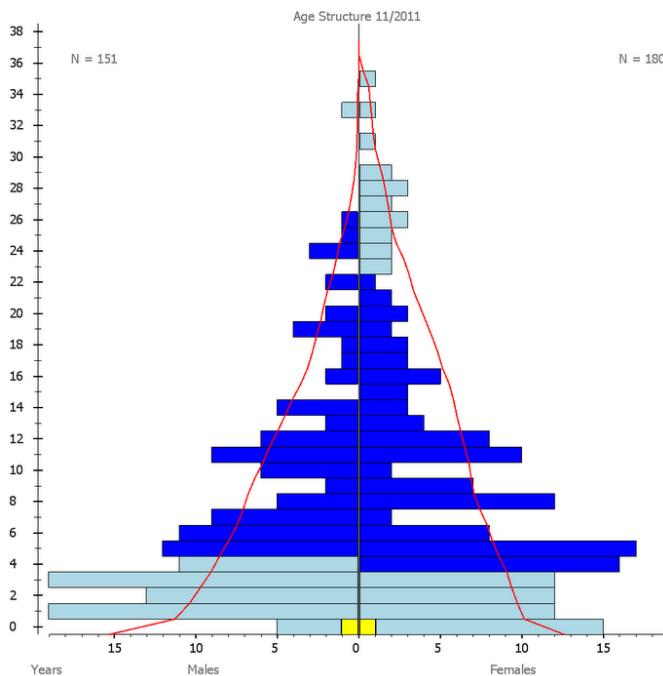
Figure 2. Age and sex structure of the 2011 population. Dark blue are breeding age individuals; light blue are immature (at bottom) or post-reproductive (at top) pandas; yellow are the two unsexed individuals.

Genetic Status

The *ex situ* giant panda population has descended from 50 wild-acquired founders (founders are defined as animals caught in the wild that have successfully produced offspring or descendants in the current population). There are an additional 15 wild-acquired pandas that have yet to produce living offspring but have not been excluded due to age or poor health (these are potential founders). The population theoretically contains 97.3% of the genetic diversity of the wild population. This level of genetic diversity has a founder genome equivalent (*FGE*) of 18.2, which means that the population has the same level of genetic diversity as a population newly established with 18 unrelated founders. The genetic contribution of founders is highly skewed, with 27% of the gene pool derived from only 4 founders (Figure 3). The level of genetic diversity in the population could be increased to 99% if the population was ideally managed and the genes from the additional 15 founders fully incorporated into the population. The population would then have a founder genome equivalent of 55.9 (Table 1). Managing the population to minimize average kinship has been shown to be the optimal method for retaining genetic diversity in the population. Managing by mean kinship will automatically identify descendents from the under-represented founders as priority breeders.

Table 1. Genetic summary of the 2011 *ex situ* population.

# Founders	50
# Potential (additional)	15
Gene Diversity Retained	0.9726
Potential Gene Diversity Retained	0.9911
Gene Value	0.9723
Founder Genome Equivalents (*FGE*)	18.24
Potential *FGE*	55.95
Mean Inbreeding	0.0015
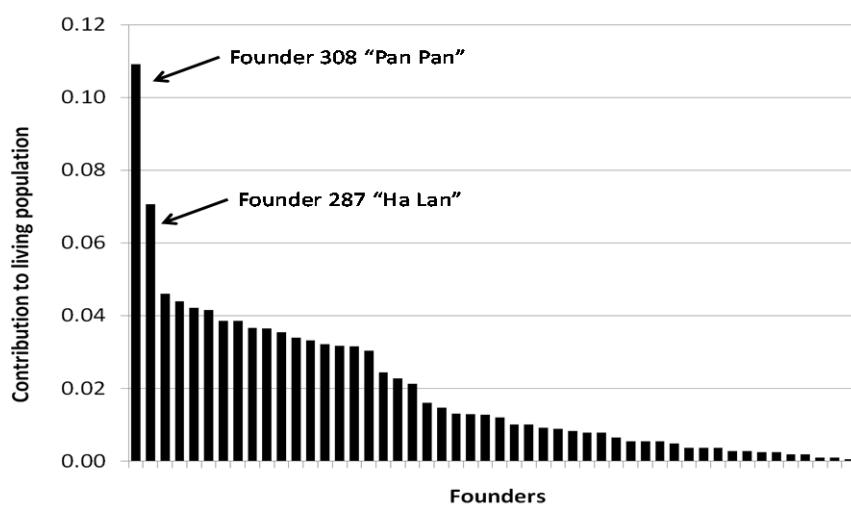
Figure 3. Genetic contribution of the 50 founders to the *ex situ* population gene pool. Each bar shows the contribution of a single founder. About 18% of the gene pool derives from only two founders (the left-most founders: 308 and 287).

Current inbreeding levels in the population are low, with only 5 inbred animals with inbreeding coefficients over 3%.While the current population is genetically healthy, pandas within institutions are closely related and it is becoming increasingly more difficult to identify non-related pairings within institutions. Inbreeding will increase as captive breeding increases and the influx of new founders from the wild remains proportionally low. This will be especially true for pairings within institutions, making the transfer of individuals among institutions for breeding more important in the future as a way to minimize inbreeding and the loss of gene diversity. In the near future, giant pandas, or their sperm, will need to be transferred among institutions to increase the number of genetically favorable breeding options in the primary breeding centers.

2012 Breeding Recommendations

Since 2010, the focus on breeding has shifted from being concentrated on rapid demographic growth (high quantity breeding) to greater emphasis on genetic management (high quality breeding). There is less need for population growth, so fewer cubs will be needed, and more emphasis can be placed on breeding pairs with low MSI (Mate Suitability Index – see Appendix D) scores and individuals with low MK values to promote retention of gene diversity in the population. Greater emphasis can also be placed on breeding the 15 potential founders (wild-caught giant pandas) that have not yet reproduced as well as more genetically valuable (rare) family lines.

At the Changsha meeting, specific breeding recommendations were made for females at the Beijing Zoo, Chongqing Zoo, Chengdu Research Base, Louguanta, and Yaan Bifengxia Breeding Center. These recommendations are shown in the following table. The full MSI tables for all potential pairings are presented in Appendix D and can be used by other breeding institutions to determine best mates for their females, or evaluate the MSI scores of the pairs in their collection.

Priority was placed on breeding genetically valuable females (with low MK values) with genetically good males (low MSI scores for the pair). To improve genetic management some breeding age females were not recommended to breed in 2012; these were usually females of low genetic value to the population (have many relatives and are descendants of over-represented founders).

Female	Name	Location	MK	Recommended males to breed with
403	Jini	BEIJING	0.0188	496, 502, 503, 563, 582, 586, 595
566	Ying Hua	BEIJING	0.0253	496, 488, 563, 582, 586, 595
652	Meng Meng	BEIJING	0.0222	496, 488, 563, 582, 586, 595
362	Ya Ya	CHENPANDA	0.0281	584, 689
387	Li Li	CHENPANDA	0.0215	525, 532, 689, 377
401	Eryatou	CHENPANDA	0.0197	386, 584, 689, 377
407	Shulan	CHENPANDA	0.0215	525, 518, 689, 377
425	Jiao Zi	CHENPANDA	0.0202	532, 689
480	Shu Qing	CHENPANDA	0.0233	386, 573, 574, 614
522	Chenggong	CHENPANDA	0.0229	536, 584, 689, 520
523	Chengji	CHENPANDA	0.0243	536, 584, 532, 520
537	Qing He	CHENPANDA	0.0320	386, 689, 503
561	Yuanyuan	CHENPANDA	0.0188	584, 532, 689, 377
598	Jing Jing	CHENPANDA	0.0251	584, 689, 520
635	Xiaoyatou	CHENPANDA	0.0345	584, 689, 377
637	Ya Zi	CHENPANDA	0.0251	584, 689, 377
665	Xiang Bing	CHENPANDA	0.0310	386, 503
680	Xing Rong	CHENPANDA	0.0209	536, 584, 532, 689, 520
681	Xing Ya	CHENPANDA	0.0240	386, 573, 584, 614, 613
765	Bei Chuan	CHENPANDA	0	342, 624, 697, 703, 659
385	Chuanxing	CHONGQING	0.0202	413, 467, 488, 503
493	Yalaoer	CHONGQING	0.0341	424, 488, 503, 563
548	Lan Xiang	CHONGQING	0.0339	424, 467, 488, 503
509	Zhu Zhu	LOUGUANTA	0.0222	377, 460
562	Yang Yang	LOUGUANTA	0.0123	697
603	Xin Xin	LOUGUANTA	0.0233	377, 624
660	Niuniu	LOUGUANTA	0	624, 697
699	Chengcheng	LOUGUANTA	0	624, 697
439	Guo Guo	YAAN BC	0.0235	488, 503
474	An Mei	YAAN BC	0.0214	413, 488, 503, 563
487	Hua Mei	YAAN BC	0.0288	488, 503
495	Ye Ye	YAAN BC	0.0208	413, 488, 595
511	Xi Mei	YAAN BC	0.0301	613, 488, 503
544	Haizi	YAAN BC	0.0028	542, 579, 623, 661
557	Ju Xiao	YAAN BC	0.0311	503
572	Jun Zhu	YAAN BC	0.0216	613, 467, 488, 503
625	Si Xue	YAAN BC	0.0277	613, 488, 503, 563
656	Zi Zhu	YAAN BC	0.0009	542, 579, 623, 661
567	Ying Mei	YANGZHOU	0.0249	488, 503, 563, 586
650	Qian Qian	YUNNAN W	0.0183	609, 613, 503, 563, 586

APPENDIX A: Assumptions about breeding population for analysis.

Data were taken from the 8 November 2011 version of the *International Giant Panda Studbook* compiled by Xie Zhong, CAZG, using the ISIS Single Population Analysis and Record Keeping System (SPARKS) v1.6 software program. SPARKS v1.6 and PMx v1.0 software (Ballou, Lacy and Pollak) were used to conduct both demographic and genetic analyses. Demographic characteristics of the population were analyzed for the period from 1 January 1990 to 8 November 2011. Genetic analysis was performed on the global living captive population. It is important to document the methods used in conducting the genetic analyses so that they can be repeated in future years.

This year 30 living pandas were excluded from the genetic analysis due to old age or chronic poor health and are listed in the table below. These pandas were excluded because they are not considered to be able to breed in the future and therefore can no longer contribute to the genetic diversity of the captive population. This left 303 pandas in the genetic population analysis.

Stbk #	Location	Sex	Age	Reason excluded
203	FUCHOW	Female	35	Too old
208	BERLINZOO	Male	33	Too old
230	ABERDE HK	Female	33	Too old
247	BEIJING	Female	29	Too old
253	CHONGQING	Female	29	Too old
264	FUCHOW	Female	31	Too old
278	CHENPANDA	Female	27	Too old
291	MEXICOCTY	Female	26	Too old
297	CHENPANDA	Female	26	Too old
308	YAAN BC	Male	26	Too old
312	CHENGDU	Female	28	Too old
314	CHENPANDA	Female	25	Too old
320	BEIJING	Female	25	Too old
332	MEXICOCTY	Female	24	Too old
360	MEXICOCTY	Female	21	Too old
365	SHANGHAI	Female	28	Too old
373	CHENPANDA	Female	20	Poor health
374	FUCHOW	Female	22	Too old
382	YAAN BC	Female	20	Too old
397	YAAN BC	Female	28	Too old
404	GUILIN	Female	17	Poor health
416	YAAN BC	Female	18	Poor health
418	YAAN BC	Female	23	Too old
444	LOUGUANTA	Female	23	Too old
497	LOUGUANTA	Female	15	Poor health

Stbk #	Location	Sex	Age	Reason excluded
498	FUCHOW	Female	27	Too old
500	LOUGUANTA	Female	26	Too old
524	HENGYANG	Male	11	Poor health
597	YAAN BC	Female	24	Too old
695	FUCHOW	Male	24	Too old

APPENDIX B: Giant pandas with uncertain paternity.

Assumptions about Paternity

Often in captivity female pandas are both naturally mated and artificially inseminated with two or more males to maximize the probability of conception. There are 60 pandas in the studbook with uncertain paternity and that are still living and/or have produced offspring (see table below; animals with uncertain paternity but that died young before they bred have been excluded). Many of these are recent births (born 2006 to 2011).

For animals with uncertain sires, all of the potential sires and the probability of each male being the true sire were entered into an analytical version of the studbook (named GP2011XX). The probability that a potential sire was the true sire were based on the following rules:

1. When a female was mated with multiple males using only one mating method – either only by natural matings (NM) or only by artificial inseminations (AI), equal probabilities were assigned to all potential sires.
2. When a female was mated using both NM and AI: In past cases, molecular genetic analyses showed that the male that was used for NM in almost all cases was the confirmed sire. Each sire mated by AI was given a 2% chance of being the true sire.
3. In cases of both NM and AI breeding methods, all males within the same method were given the same probability of being the true sire.
4. The sum of all probabilities for all potential sires for an animal = 100%.
5. For 10 animals that were born before 2002 when the first population analysis was conducted, there is no information available on mating method (NM or AI), but a male was selected as the sire. For these animals, this sire was kept for analysis.

Examples:
    A: ♂ 201 (AI) and ♂ 202 (AI)
        201 = 50%; 202 = 50%
    B: ♂174 (NM) and ♂ 201 (AI)
        174 = 98%; 201 = 2%
    C: ♂ 201 (AI), ♂ 202 (AI) and ♂ 174 (NM)
        201 = 2%; 202 = 2%; 174 = 96%
    D: ♂ 174 (NM), ♂ 424 (NM) and ♂ 201 (AI)
        174 = 49%; 424 = 49%; 201 = 2%

It will be important to resolve these and any future uncertain paternities to accurately evaluate the genetic value of individuals, the relationship between mates, and the status of the population as a whole.

Stdbk#	Possible sires	Confirmed by molecular genetic analysis?	Relevant notes from 2011 studbook	Sires used in GP2011XX
237	150, 186 (?)	No	No note of NM or AI; studbook entered 186 as the sire	186 [1]
278	174, 201 (?)	2001 analysis excluded 202 as possible sire	1991 note says may be 174, 201 or 202; 174 was entered as the sire. No note on which NM or AI.	174 [1]
297	174 (NM), 201 (AI?), 202 (AI?)	No		174 (96%); 201 (2%); 202 (2%)
314	174, 201, 202 (?)	No	1991 note used 201 but says may be any of these. No note if NM or AI.	201 [1]
320	119, 135, 149 (?)	No	1991 note says sire may also be 135 or 109, but 149 listed as sire.	149 [1]
323	150, 186 (?)	No	Note just says sire may be 150 or 186. 186 listed as the sire.	186 [1]
433	308 (NM); 298 (?)	Sire unresolved by 2001 analysis	No note about 298. 308 listed as the sire.	308 [1]
437	308 (NM); 298 (?)	Sire unresolved by 2001 analysis	No note about 298. 308 listed as the sire.	308 [1]
439	308, 329 (NM); 298 (?)	No	Note says 298 AI	308 (49%); 329 (49%); 298 (2%)
455	308, 329 (NM)	Molecular analyses, but unresolved		308 (50%); 329 (50%)
469	323, 369 (?)	No	1999 studbook had 323, no notes about any AI.	323 [1]
495	308, 329 (?)	Confirmed 2001	329 in 2001 genetic analyses, but twin showed 308	329
507	345, 369 (?)	No	1999 studbook had 369	369 [1]
532	377, 394, 399 (?)	No	No comments or mention of multiple sires as AI. 394 listed as sire.	394 [1]
538	308, 357 (?)	No	Sire 308 in 2001 studbook with 357 as AI	308 (98%); 357 (2%)
539	308, 357 (?)	No	Sire 308 in 2001 studbook with 357 as AI	308 (98%); 357 (2%)
547	308, 394 (NM); 357 (AI)	No		308 (49%); 394 (49%); 357 (2%)
548	308, 394 (NM); 357 (AI)	No		308 (49%); 394 (49%); 357 (2%)
549	308, 394 (NM); 357, 415 (AI)	No		308 (48%); 394 (48%); 357 (2%); 415 (2%)
557	399 (NM); 327 (AI)	No		399 (98%); 327 (2%)
566	399 (NM), 424 (NM)	No	424 listed in studbook as the sire	424 [1]
652	424, 503 (NM); 467 (AI)	No		424 (49%); 503 (49%); 467 (2%)
713	377 (NM); 386 (AI)	No		377 (98%); 386 (2%)
715	377 (NM); 386 (AI)	No		377 (98%); 386 (2%)
741	424, 502 (NM)	No	Both NM	424 (50%); 502 (50%)
743	327, 621 (AI)	No	Both AI	327 (50%); 621 (50%)
748	488 (NM); 424 (AI)	No		488 (98%); 424 (2%)
752	488 (NM); 399 (AI)	No		488 (98%); 399 (2%)
753	658, 697 (?)	No	AI	658 (50%); 697 (50%)

754	658, 697 (?)	No	AI	658 (50%); 697 (50%)
755	502, 503 (NM)	No		503 (50%); 502 (50%)
756	503, 563 (NM)	No		503 (50%); 563 (50%)
757	377, 658, 697 (?)	No	AI	377 (33%); 658 (33%); 697 (34%)
763	377 (NM); 540 (AI)	No		377 (98%); 540 (2%)
764	377 (NM): 386, 455 (AI)	No		377 (96%); 386 (2%); 455 (2%)
766	496 (NM); 394, 454 (AI)	No		496 (96%); 394 (2%); 454 (2%)
769	575 (NM, AI); 386 (AI)	No		575 (98%); 386 (2%)
770	520 (NM, AI); 386 (AI)	No		520 (98%); 386 (2%)
771	623 (NM); 502 (NM, AI)	No		623 (50%); 502 (50%)
772	623 (NM); 502 (NM, AI)	No		623 (50%); 502 (50%)
779	455 (NM); 584 (NM, AI); 386 (AI)	No		455 (49%); 584 (49%); 386 (2%)
780	455 (NM); 584 (NM, AI); 386 (AI)	No		455 (49%); 584 (49%); 386 (2%)
781	502, 503 (NM)	No		502 (50%); 503 (50%)
784	502 (NM, AI); 399 (AI)	No		502 (98%); 399 (2%)
775	502 (NM), 503 (AI)	No		502 (98%); 503 (2%)
776	502 (NM), 503 (AI)	No		502 (98%); 503 (2%)
787	342 (NM, AI); 584 (NM, AI); 377 (NM)	No		Sires inadvertently left out of analysis; should be: 342 (33%); 584 (33%); 377(34%)
788	342 (NM, AI); 584 (NM, AI); 377 (NM)	No		Sires inadvertently left out of analysis; should be: 342 (33%); 584 (33%); 377(34%)
796	574, 584 (NM); 377 (AI)	No		574 (49%); 584 (49%); 377 (2%)
811	574, 540, 386 AI	No		574 (33%); 540 (33%); 386 (34%)
813	584, 574 AI	No		584 (50%); 574 (50%)
818	455, 540 both NM	No		455 (50%); 540 (50%)
819	455, 540 both NM	No		455 (50%); 540 (50%)
820	584 (NM), 540 (AI), 574 (AI)	No		584 (96%); 540 (2%); 574 (2%)
821	455 (NM), 377 (AI)	No		455 (98%); 377 (2%)
822	455 (NM), 377 (AI)	No		455 (98%); 377 (2%)
823	574, 386 both AI	No		574 (50%); 386 (50%)
824	520, 390, 584 all AI	No		520 (33%); 390 (33%); 584 (34%)
825	520, 390, 584 all AI	No		520 (33%); 390 (33%); 584 (34%)
830	503, 623 (NM)	No		502 (50%); 623 (50%)

[1.] **Male was listed as the sire in earlier versions of the studbook; however, there is no note on how the male was confirmed as the sire.**

APPENDIX C: Ranked mean kinship (MK) list for giant panda captive population.

Individual giant pandas are listed in order of genetic value for breeding (males on the left; females on the right; unsexed wild-caught pandas on both lists, in *italics*). Individuals at the top of the list have small mean kinship (MK) values because their genetic lines are under-represented and therefore are valuable breeders. Individuals with high MK values near the bottom of the list are over-represented in the population. The line in the middle of the list represents the average MK value for the population (0.0274); individuals above this line are underrepresented and are priority breeders to increase gene diversity in the population.

Males…					Females…			
Stbk #	MK	Age	Location		Stbk #	MK	Age	Location
542	0	12	YAAN BC		660	0	14	LOUGUANTA
594	0	24	YAAN BC		696	0	16	YAAN BC
624	0	7	LOUGUANTA		699	0	5	LOUGUANTA
659	0	20	TAIYUAN		700	0	5	LOUGUANTA
661	0	5	YAAN BC		701	0	16	YAAN BC
703	0	4	LOUGUANTA		702	0	4	YAAN BC
802	0	3	LOUGUANTA		765	0	5	CHENPANDA
803	0	3	LOUGUANTA		656	0.0009	12	YAAN BC
621	0.0005	22	YAAN BC		505	0.0018	11	YAAN BC
579	0.0009	10	YAAN BC		581	0.0018	9	WOLONG
697	0.0012	16	LOUGUANTA		698	0.0018	8	YAAN BC
327	0.0014	25	ABERDE HK		544	0.0028	17	YAAN BC
357	0.0024	22	SHANGHAI		826	0.0044	0	YAAN BC
415	0.0044	19	SANDIEGOZ		827	0.0044	0	YAAN BC
623	0.0051	7	YAAN BC		754	0.0079	2	LOUGUANTA
342	0.0060	24	CHENPANDA		507	0.0090	11	MEMPHIS
753	0.0079	2	LOUGUANTA		776	0.0104	1	YAAN BC
775	0.0104	1	YAAN BC		791	0.0122	1	YAAN BC
674	0.0108	4	YAAN BC		562	0.0123	8	LOUGUANTA
777	0.0122	1	WOLONG		434	0.0135	16	KOBE PARK
752	0.0129	2	SHANGHAI		691	0.0136	4	CHENGCHOW
743	0.0131	2	YAAN BC		473	0.0145	13	NZP-WASH
748	0.0137	2	YAAN BC		757	0.0154	2	LOUGUANTA
711	0.0154	3	CHENPANDA		725	0.0161	3	CHENPANDA
377	0.0158	20	LOUGUANTA		569	0.0175	8	YAAN BC
724	0.0161	3	CHENPANDA		643	0.0180	5	NANJING
502	0.0170	12	YAAN BC		650	0.0183	5	YUNNAN W
609	0.0172	6	PANYU		403	0.0188	18	BEIJING
798	0.0178	1	YAAN BC		561	0.0188	8	CHENPANDA

Males…					Females…			
Stbk #	MK	Age	Location		Stbk #	MK	Age	Location
461	0.0180	14	ATLANTA		784	0.0191	1	BEIJING
719	0.0182	3	YAAN BC		452	0.0193	14	ATLANTA
736	0.0182	3	CHENPANDA		761	0.0195	2	CHENPANDA
606	0.0186	6	ABERDE HK		762	0.0195	2	CHENPANDA
526	0.0190	11	VIENNA		401	0.0197	18	CHENPANDA
649	0.0195	5	CHENPANDA		739	0.0199	3	SHANGHAI
731	0.0195	3	ATLANTA		794	0.0199	1	YAAN BC
801	0.0195	1	ATLANTA		692	0.0201	4	YAAN BC
787 U	0.0197	1	CHENPANDA		385	0.0202	19	CHONGQING
788 U	0.0197	1	CHENPANDA		425	0.0202	16	CHENPANDA
689	0.0199	4	GUANGZH Z		576	0.0203	8	MADRID Z
690	0.0199	4	YAAN BC		512	0.0207	11	FUYANG EP
713	0.0200	3	WEIFANG		495	0.0208	12	YAAN BC
386	0.0202	19	CHENPANDA		680	0.0209	4	CHENPANDA
466	0.0202	13	MEMPHIS		654	0.0210	5	XIUNING
582	0.0202	7	YAAN BC		755	0.0210	2	YAAN BC
756	0.0203	2	YAAN BC		678	0.0211	4	ANJI BAMB
503	0.0208	12	YAAN BC		601	0.0212	6	PANYU
758	0.0217	2	YAAN BC		812	0.0213	0	WOLONG
510	0.0218	11	CHIANGMAI		474	0.0214	13	YAAN BC
747	0.0220	2	PANYU		387	0.0215	19	CHENPANDA
584	0.0221	7	CHENPANDA		407	0.0215	17	CHENPANDA
772	0.0222	1	YAAN BC		572	0.0216	8	YAAN BC
807	0.0222	0	WOLONG		800	0.0220	1	YAAN BC
488	0.0225	12	YAAN BC		509	0.0222	11	LOUGUANTA
613	0.0226	6	PANYU		652	0.0222	5	BEIJING
714	0.0228	3	LIUGONGDA		771	0.0222	1	YAAN BC
726	0.0229	3	CHENPANDA		712	0.0228	3	TIANMUHU
770	0.0236	1	CHENPANDA		522	0.0229	11	CHENPANDA
553	0.0238	9	LOUGUANTA		759	0.0231	2	YAAN BC
792	0.0242	1	MADRID Z		760	0.0231	2	YAAN BC
793	0.0242	1	MADRID Z		823	0.0231	0	CHENPANDA
390	0.0243	19	WAKAYAMA		480	0.0233	12	CHENPANDA
749	0.0250	2	SANDIEGOZ		603	0.0233	6	LOUGUANTA
563	0.0252	8	YAAN BC		439	0.0235	15	YAAN BC
825	0.0254	0	CHENPANDA		681	0.0240	4	CHENPANDA
586	0.0255	7	YAAN BC		523	0.0243	11	CHENPANDA
595	0.0255	6	YAAN BC		811	0.0247	0	CHENPANDA
668	0.0257	4	XIUNING		567	0.0249	8	YANGZHOU

Males...					Females...			
Stbk #	MK	Age	Location		Stbk #	MK	Age	Location
715	0.0257	3	WEIFANG		706	0.0249	3	SHANGHAI
520	0.0258	11	LUOYANG		694	0.0250	4	YAAN BC
745	0.0258	2	SHANGHAI		598	0.0251	6	CHENPANDA
746	0.0258	2	SHANGHAI		637	0.0251	5	CHENPANDA
607	0.0260	6	WUHAN		566	0.0253	8	BEIJING
620	0.0260	6	ADELAIDE		824	0.0254	0	CHENPANDA
519	0.0264	11	MADRID Z		596	0.0255	6	WOLONG
744	0.0264	2	PANYU		669	0.0257	4	YANTAI
778	0.0267	1	YAAN BC		763	0.0258	2	CHENPANDA
592	0.0269	7	LANCHOW		709	0.0264	3	CHENPANDA
685	0.0272	4	YAAN BC		710	0.0264	3	CHENPANDA
769	0.0272	1	CHENPANDA		764	0.0264	2	CHENPANDA
789	0.0272	1	VIENNA		663	0.0274	4	WAKAYAMA
573	0.0274	8	CHENPANDA		625	0.0277	5	YAAN BC
614	0.0274	6	CHENPANDA		796	0.0277	1	CHENPANDA
662	0.0274	4	CHENPANDA		651	0.0279	5	NANJING
809	0.0280	0	WOLONG		631	0.0280	5	YUNNAN W
532	0.0282	10	FUCHOW		741	0.0280	2	PANYU
574	0.0283	8	CHENPANDA		810	0.0280	0	WOLONG
742	0.0284	2	PANYU		362	0.0281	21	CHENPANDA
540	0.0285	9	CHENPANDA		641	0.0281	5	GUILIN
536	0.0287	10	CHENGDU		734	0.0285	3	SHANGHAI
786	0.0294	1	YAAN BC		735	0.0285	3	SHANGHAI
639	0.0297	5	WENLING S		820	0.0287	0	CHENPANDA
721	0.0300	3	TIANMUHU		487	0.0288	12	YAAN BC
413	0.0303	17	YAAN BC		568	0.0289	8	YAAN BC
636	0.0303	5	WENLING S		781	0.0289	1	YAAN BC
467	0.0305	13	YAAN BC		664	0.0291	4	YAAN BC
738	0.0305	3	WAKAYAMA		638	0.0297	5	ADELAIDE
782	0.0305	1	WAKAYAMA		610	0.0299	6	ABERDE HK
492	0.0307	12	SHANGAHAI		632	0.0299	5	GUILIN
518	0.0307	11	GUANGZH Z		587	0.030	7	TAIPEI
750	0.0309	2	PANYU		672	0.030	4	XIUNING
525	0.0311	11	FUCHOW		673	0.030	4	CHENGCHOW
790	0.0311	1	YAAN BC		740	0.030	2	CHIANGMAI
564	0.0314	8	YAAN BC		774	0.030	1	YAAN BC
588	0.0316	7	TAIPEI		511	0.0301	11	YAAN BC
589	0.0316	7	TIANJIN		737	0.0305	3	WAKAYAMA
619	0.0316	6	WUHAN		783	0.0305	1	WAKAYAMA

Males…					Females…			
Stbk #	MK	Age	Location		Stbk #	MK	Age	Location
515	0.0320	11	HEFEI W		813	0.0306	0	CHENPANDA
732	0.0320	3	CHENPANDA		751	0.0309	2	PANYU
454	0.0321	14	CHENGDU		665	0.0310	4	CHENPANDA
599	0.0323	6	XIXIAKOU		557	0.0311	9	YAAN BC
633	0.0323	5	WENLING S		565	0.0314	8	TAIHU EP
575	0.0325	8	CHENPANDA		704	0.0314	3	YAAN BC
513	0.0326	11	CHONGQING		618	0.0316	6	PANYU
424	0.0327	16	YAAN BC		537	0.0320	10	CHENPANDA
529	0.0327	10	CHENPANDA		766	0.0322	1	BEIJING
530	0.0327	10	WENZHOU		600	0.0323	6	TOKYOUENO
768	0.0336	1	YAAN BC		634	0.0323	5	YUNNAN W
648	0.0343	5	CHONGQING		549	0.0327	9	TAIHU EP
676	0.0343	4	CHONGQING		554	0.0327	9	CHENPANDA
646	0.0347	5	WUXI		555	0.0331	9	CHENPANDA
458	0.0348	14	NZP-WASH		514	0.0335	11	VIENNA
707	0.0356	3	NINGBO		494	0.0336	12	CHENPANDA
708	0.0356	3	NINGBO		570	0.0336	8	CHENPANDA
773	0.0356	1	YAAN BC		593	0.0338	7	CHENPANDA
538	0.0360	10	FUCHOW		548	0.0339	9	CHONGQING
583	0.0362	7	SHANGHAI		493	0.0341	12	CHONGQING
612	0.0362	6	TOKYOUENO		453	0.0344	14	CHENPANDA
666	0.0363	4	ANJI BAMB		547	0.0344	9	YAAN BC
717	0.0363	3	CHENPANDA		635	0.0345	5	CHENPANDA
718	0.0363	3	CHENPANDA		645	0.0347	5	CHENPANDA
780	0.0367	1	CHENPANDA		521	0.0348	11	WAKAYAMA
670	0.0368	4	WENZHOU		491	0.0353	12	CHENPANDA
496	0.0369	12	BEIJING		437	0.0357	15	WOLONG
688	0.0380	4	YANTAI		821	0.0358	0	CHENPANDA
460	0.0397	14	LOUGUANTA		822	0.0358	0	CHENPANDA
644	0.0418	5	CHENPANDA		611	0.0362	6	YAAN BC
727	0.0418	3	CHENPANDA		682	0.0362	4	LIUGONGDA
627	0.0423	5	ANJI BAMB		667	0.0363	4	CHENPANDA
628	0.0423	5	GUIZHOU W		539	0.0365	10	CHIANGMAI
399	0.0427	18	NANCHANG		490	0.0367	12	CHENPANDA
629	0.0430	5	ANJI BAMB		516	0.0367	11	YAAN BC
630	0.0430	5	WUXI		571	0.0367	8	YAAN BC
815	0.0430	0	CHENPANDA		779	0.0367	1	CHENPANDA
605	0.0433	6	XIXIAKOU		671	0.0368	4	CHENPANDA
455	0.0474	14	CHENPANDA		476	0.0371	13	WOLONG

Males...					Females...			
Stbk #	MK	Age	Location		Stbk #	MK	Age	Location
394	0.0482	19	BEIJING		432	0.0373	16	YAAN BC
					818	0.0373	0	CHENPANDA
					819	0.0373	0	CHENPANDA
					477	0.0379	13	YAAN BC
					722	0.0430	3	CHENPANDA
					723	0.0430	3	CHENPANDA
					814	0.0430	0	CHENPANDA
					371	0.0437	20	SANDIEGOZ

APPENDIX D: Giant panda MSI values for mate selection during the 2012 breeding season (distributed at the meeting in Changsha in November 2011).

Although females were assigned male mates during the Changsha meeting, there are always circumstances where identified males may not be available. In that case, we are providing the full MSI table to all institutions so they can, if needed, find other suitable mates if the ones identified are not available. When choosing males, consider the following:

- There is no need to attempt to breed all females; breeding efforts should concentrate on genetically valuable females.
- Pairs with MSI = 1 to 3 should be given breeding priority, especially for institutions with pairing choices, as this will improve genetic diversity and reduce inbreeding.
- Efforts should be made also to breed males and females with low mean kinship (MK) values. The average MK in the population is 0.0274. Animals with MK less than 0.0274 should be preferred breeders to maintain genetic diversity. The MK values are show for each male and female on the MSI tables.
- Efforts should be made to breed any wild-acquired pandas that have not produced surviving offspring.
- AI should be restricted for use only for genetically valuable pairings that must be bred.

<u>MateRx listings</u>

We are now using a rating system that calculates an index that indicates how good (or bad) any pair in a population is relative to several measures of genetic importance. The PMx software includes the MateRx tool, which is designed and developed to be a genetic tool that will guide population management decisions. For every male/female pair in the population, MateRx calculates a single numeric index indicating the relative genetic benefit or detriment to the population of breeding that particular pair. This index, called the mate suitability index (or MSI), is calculated from considering each pair's mean kinship values, the difference in the male's and female's mean kinship, the inbreeding coefficient of the offspring produced, and the amount of unknown ancestry in the pair. MateRx is designed to simplify the decisions about which pairs should be bred by condensing all that we know about the genetics of a pair into a single number.

MSI values are labeled as beneficial (scores = 1, 2, or 3) or detrimental (scores = 4, 5, or 6) to the population. Beneficial MSIs denote no detrimental effects relative to the genetic values of that pair, and MSI values of 4, 5, or 6 indicate at least one detrimental effect.

MSI Score Definitions:

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1 = very beneficial pair;
2 = moderately beneficial pair;
3 = slightly beneficial pair;

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4 = slightly detrimental pair;
5 = detrimental pair, should only be used if demographically necessary;
6 = very detrimental pair, (should only be used if demographic
considerations override preservation of genetic diversity per se).

"-" = so detrimental that the pair should never be bred

- Breeding by MSI values does not address demographics, behavior or logistics of a pairing.

- MSI values are not intended for use with all captive managed species. Many species have unusual population histories and structures that require the expertise and attention of a trained population biologist. These populations may have characteristics such as few founders, many captive generations, extremely small numbers, or many unknown origins or parentage data that prohibit generic management.

- MSI values (and MK values) are time sensitive: the MSI rankings are only valid as long as there are no substantial changes in the population. These MSI tables should be considered invalid after one year following its date of creation.

Males ⇓	MK⇓	Location	610 0.0299 ABERDE HK	638 0.0297 ADELAIDE	678 0.0211 ANJI BAMB	452 0.0193 ATLANTA	403 0.0188 BEIJING	566 0.0253 BEIJING	652 0.0222 BEIJING
		Females ⇒	610	638	678	452	403	566	652
		MK⇒	0.0299	0.0297	0.0211	0.0193	0.0188	0.0253	0.0222
		Location	ABERDE HK	ADELAIDE	ANJI BAMB	ATLANTA	BEIJING	BEIJING	BEIJING
327	0.0014	ABERDE HK	6	6	4	4	4	4	4
606	0.0186	ABERDE HK	3	3	2	2	2	-	4
620	0.026	ADELAIDE	4	4	3	3	3	2	2
627	0.0423	ANJI BAMB	4	4	4	4	4	4	4
629	0.043	ANJI BAMB	4	4	4	4	4	4	4
666	0.0363	ANJI BAMB	4	4	4	4	4	4	4
461	0.018	ATLANTA	3	3	2	2	2	3	3
731	0.0195	ATLANTA	3	3	4	-	2	3	2
801	0.0195	ATLANTA	3	3	4	-	2	3	2
394	0.0482	BEIJING	5	5	6	6	6	4	6
496	0.0369	BEIJING	5	5	4	4	4	4	4
454	0.0321	CHENGDU	4	4	4	4	4	4	4
536	0.0287	CHENGDU	4	4	-	-	3	4	3
342	0.006	CHENPANDA	4	4	4	4	4	4	4
386	0.0202	CHENPANDA	3	3	-	2	2	3	2
455	0.0474	CHENPANDA	4	4	6	6	6	4	6
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	4	4	-	4	3
573	0.0274	CHENPANDA	4	4	4	4	-	2	3
574	0.0283	CHENPANDA	4	4	4	4	-	4	3
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	3	3	2	2	2	4	4
614	0.0274	CHENPANDA	4	4	4	4	-	2	3
644	0.0418	CHENPANDA	4	4	4	4	4	4	4
649	0.0195	CHENPANDA	3	3	4	-	2	3	2
662	0.0274	CHENPANDA	4	4	4	4	-	2	3
711	0.0154	CHENPANDA	4	4	4	2	1	3	3
717	0.0363	CHENPANDA	4	4	4	4	4	4	4
718	0.0363	CHENPANDA	4	4	4	4	4	4	4
724	0.0161	CHENPANDA	4	4	4	2	1	3	3
726	0.0229	CHENPANDA	3	3	2	2	2	2	2
727	0.0418	CHENPANDA	4	4	4	4	4	4	4
732	0.032	CHENPANDA	4	4	4	4	4	4	4
736	0.0182	CHENPANDA	3	3	6	4	2	3	2
769	0.0272	CHENPANDA	4	4	-	-	3	2	3
770	0.0236	CHENPANDA	4	4	4	4	3	2	2
780	0.0367	CHENPANDA	4	4	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	-	-	5	5	5
788	0.0197	CHENPANDA	5	5	-	-	5	5	5
815	0.043	CHENPANDA	4	4	4	4	4	4	4
825	0.0254	CHENPANDA	4	4	4	4	4	2	2
510	0.0218	CHIANGMAI	3	3	2	2	2	2	2
513	0.0326	CHONGQING	4	4	4	4	4	-	-
648	0.0343	CHONGQING	4	4	4	4	4	-	4
676	0.0343	CHONGQING	4	4	4	4	4	-	4
525	0.0311	FUCHOW	6	4	3	3	4	4	4
532	0.0282	FUCHOW	4	4	3	3	3	4	3
538	0.036	FUCHOW	5	4	4	4	4	4	4
518	0.0307	GUANGZH Z	4	4	3	3	3	4	3
689	0.0199	GUANGZH Z	3	3	2	2	2	3	2
628	0.0423	GUIZHOU W	4	4	4	4	4	4	4
515	0.032	HEFEI W	4	4	4	4	4	4	4
592	0.0269	LANCHOW	4	4	4	4	3	2	3
714	0.0228	LIUGONGDA	-	-	2	2	2	2	4
377	0.0158	LOUGUANTA	4	4	3	1	1	3	3
460	0.0397	LOUGUANTA	5	5	4	4	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	-	2	2
624	0	LOUGUANTA	6	6	4	4	403	56	4
697	0.0012	LOUGUANTA	6	6	4	4	4	4	4

Males ⇓	MK⇓	Location	610 0.0299 ABERDE HK	638 0.0297 ADELAIDE	678 0.0211 ANJI BAMB	452 0.0193 ATLANTA	403 0.0188 BEIJING	566 0.0253 BEIJING	652 0.0222 BEIJING
703	0	LOUGUANTA	6	6	4	4	4	6	4
753	0.0079	LOUGUANTA	4	4	4	3	3	4	4
802	0	LOUGUANTA	6	6	4	4	4	6	4
803	0	LOUGUANTA	6	6	4	4	4	6	4
520	0.0258	LUOYANG	4	4	4	-	3	2	2
519	0.0264	MADRID Z	4	4	4	-	3	2	3
792	0.0242	MADRID Z	4	4	4	4	3	2	2
793	0.0242	MADRID Z	4	4	4	4	3	2	2
466	0.0202	MEMPHIS	3	3	2	2	2	-	4
399	0.0427	NANCHANG	5	5	4	4	4	4	4
707	0.0356	NINGBO	4	-	4	4	4	-	4
708	0.0356	NINGBO	4	-	4	4	4	-	4
458	0.0348	NZP-WASH	-	4	4	4	4	4	4
609	0.0172	PANYU	4	4	2	2	2	3	3
613	0.0226	PANYU	3	4	2	2	2	-	4
742	0.0284	PANYU	4	4	3	3	3	4	3
744	0.0264	PANYU	-	-	3	3	3	2	4
747	0.022	PANYU	-	-	4	4	2	4	6
750	0.0309	PANYU	4	4	3	3	6	4	4
415	0.0044	SANDIEGOZ	6	6	4	4	4	4	4
749	0.025	SANDIEGOZ	4	4	2	3	3	2	2
357	0.0024	SHANGHAI	6	6	4	4	4	4	4
492	0.0307	SHANGHAI	4	4	3	3	3	4	3
583	0.0362	SHANGHAI	4	4	4	4	4	-	4
745	0.0258	SHANGHAI	-	-	3	3	3	2	4
746	0.0258	SHANGHAI	-	-	3	3	3	2	4
752	0.0129	SHANGHAI	4	4	3	2	6	4	3
588	0.0316	TAIPEI	4	4	3	4	4	-	4
659	0	TAIYUAN	6	6	4	4	4	6	4
589	0.0316	TIANJIN	4	4	3	4	4	-	4
721	0.03	TIANMUHU	-	-	3	3	3	4	4
612	0.0362	TOKYOUENO	4	4	4	4	4	-	4
526	0.019	VIENNA	3	3	2	2	2	3	2
789	0.0272	VIENNA	4	4	3	3	3	4	4
390	0.0243	WAKAYAMA	4	4	2	3	-	2	2
738	0.0305	WAKAYAMA	4	4	4	4	-	4	3
782	0.0305	WAKAYAMA	4	4	4	4	-	4	3
713	0.02	WEIFANG	3	3	2	2	2	3	2
715	0.0257	WEIFANG	4	4	3	3	3	2	2
633	0.0323	WENLING S	4	4	4	4	4	-	4
636	0.0303	WENLING S	-	-	3	3	3	4	4
639	0.0297	WENLING S	-	-	3	3	3	4	4
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	4	4	4	4	4
777	0.0122	WOLONG	-	-	3	2	2	4	4
807	0.0222	WOLONG	4	4	2	2	2	2	2
809	0.028	WOLONG	-	4	3	3	3	4	3
607	0.026	WUHAN	4	-	3	3	4	2	2
619	0.0316	WUHAN	4	4	3	4	4	-	4
630	0.043	WUXI	4	4	4	4	4	4	4
646	0.0347	WUXI	4	4	-	-	4	4	4
668	0.0257	XIUNING	-	-	3	3	3	2	4
599	0.0323	XIXIAKOU	4	4	4	4	4	-	-
605	0.0433	XIXIAKOU	5	4	4	4	6	4	4
413	0.0303	YAAN BC	4	4	3	3	3	4	3
424	0.0327	YAAN BC	4	4	4	4	4	-	6
467	0.0305	YAAN BC	4	4	3	3	3	4	3
488	0.0225	YAAN BC	3	3	2	2	-	2	2
502	0.017	YAAN BC	4	4	3	2	2	3	3

2012 MSI Table   **Yellow Hilights are female to be bred and the males they can be bred with**   Page 2 of 66

Males ⇓	MK⇓	Location	610 0.0299 ABERDE HK	638 0.0297 ADELAIDE	678 0.0211 ANJI BAMB	452 0.0193 ATLANTA	403 0.0188 BEIJING	566 0.0253 BEIJING	652 0.0222 BEIJING
503	0.0208	YAAN BC	-	-	2	2	2	3	6
542	0	YAAN BC	6	6	4	4	4	6	4
563	0.0252	YAAN BC	4	4	3	3	3	2	2
564	0.0314	YAAN BC	4	4	3	3	4	4	4
579	0.0009	YAAN BC	6	6	4	4	4	6	4
582	0.0202	YAAN BC	-	4	2	2	2	3	2
586	0.0255	YAAN BC	4	4	3	3	3	2	2
594	0	YAAN BC	6	6	4	4	4	6	4
595	0.0255	YAAN BC	4	4	4	4	3	2	2
621	0.0005	YAAN BC	6	6	4	4	4	6	4
623	0.0051	YAAN BC	6	6	4	4	4	4	4
661	0	YAAN BC	6	6	4	4	4	6	4
674	0.0108	YAAN BC	4	4	3	3	2	4	3
685	0.0272	YAAN BC	4	4	3	3	3	4	4
690	0.0199	YAAN BC	3	3	2	2	2	3	2
719	0.0182	YAAN BC	3	3	2	2	2	-	4
743	0.0131	YAAN BC	4	4	2	2	2	3	3
748	0.0137	YAAN BC	4	4	2	2	6	3	3
756	0.0203	YAAN BC	4	4	2	2	2	-	-
758	0.0217	YAAN BC	-	-	2	2	2	2	4
768	0.0336	YAAN BC	4	4	4	4	4	-	4
772	0.0222	YAAN BC	4	4	2	2	2	2	2
773	0.0356	YAAN BC	4	-	4	4	4	-	4
775	0.0104	YAAN BC	4	4	3	3	3	4	3
778	0.0267	YAAN BC	4	4	3	3	-	2	3
786	0.0294	YAAN BC	4	4	3	3	-	4	4
790	0.0311	YAAN BC	4	4	3	3	-	4	4
798	0.0178	YAAN BC	4	4	2	2	2	3	3
688	0.038	YANTAI	4	-	4	4	4	4	4

Males ⇩	MK⇩	Location	766	784	673	691	362	387	401
			0.0322	0.0191	0.03	0.0136	0.0281	0.0215	0.0197
			BEIJING	BEIJING	CHENGCHOW	CHENGCHOW	CHENPANDA	CHENPANDA	CHENPANDA
327	0.0014	ABERDE HK	6	4	6	2	6	4	4
606	0.0186	ABERDE HK	4	2	3	2	3	2	2
620	0.026	ADELAIDE	4	3	4	-	4	3	3
627	0.0423	ANJI BAMB	4	4	4	6	4	4	4
629	0.043	ANJI BAMB	4	4	4	6	4	4	4
666	0.0363	ANJI BAMB	4	4	4	4	4	4	4
461	0.018	ATLANTA	4	2	3	2	-	-	4
731	0.0195	ATLANTA	4	2	3	2	-	4	4
801	0.0195	ATLANTA	4	2	3	2	-	4	4
394	0.0482	BEIJING	5	6	5	6	4	6	6
496	0.0369	BEIJING	-	4	5	4	4	4	4
454	0.0321	CHENGDU	4	4	4	4	-	-	-
536	0.0287	CHENGDU	4	3	4	4	4	3	3
342	0.006	CHENPANDA	6	4	4	2	4	4	-
386	0.0202	CHENPANDA	3	2	3	2	3	2	2
455	0.0474	CHENPANDA	5	6	4	6	4	6	6
529	0.0327	CHENPANDA	4	4	4	4	-	-	4
540	0.0285	CHENPANDA	4	4	4	4	4	3	3
573	0.0274	CHENPANDA	4	4	4	4	4	3	3
574	0.0283	CHENPANDA	4	4	4	4	4	3	3
575	0.0325	CHENPANDA	4	4	4	4	-	-	-
584	0.0221	CHENPANDA	4	2	3	3	3	2	2
614	0.0274	CHENPANDA	4	4	4	4	4	3	3
644	0.0418	CHENPANDA	4	4	4	6	5	4	4
649	0.0195	CHENPANDA	4	2	3	2	-	4	4
662	0.0274	CHENPANDA	4	4	4	4	4	3	3
711	0.0154	CHENPANDA	4	1	4	1	4	4	-
717	0.0363	CHENPANDA	4	4	4	4	4	4	4
718	0.0363	CHENPANDA	4	4	4	4	4	4	4
724	0.0161	CHENPANDA	4	1	4	1	4	4	-
726	0.0229	CHENPANDA	4	2	3	3	-	-	4
727	0.0418	CHENPANDA	4	4	4	6	5	4	4
732	0.032	CHENPANDA	4	4	4	4	-	4	4
736	0.0182	CHENPANDA	4	2	3	2	3	2	2
769	0.0272	CHENPANDA	4	3	4	4	4	4	4
770	0.0236	CHENPANDA	4	3	4	3	4	4	-
780	0.0367	CHENPANDA	4	4	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	4	6	4	4	4
825	0.0254	CHENPANDA	4	4	4	4	4	4	4
510	0.0218	CHIANGMAI	4	2	3	3	3	2	2
513	0.0326	CHONGQING	6	4	4	4	4	4	4
648	0.0343	CHONGQING	5	4	4	4	-	4	4
676	0.0343	CHONGQING	5	4	4	4	-	4	4
525	0.0311	FUCHOW	4	3	6	4	4	3	3
532	0.0282	FUCHOW	4	3	4	4	4	3	3
538	0.036	FUCHOW	6	4	5	4	4	4	4
518	0.0307	GUANGZH Z	4	3	4	4	4	3	3
689	0.0199	GUANGZH Z	4	6	3	2	3	2	2
628	0.0423	GUIZHOU W	4	4	4	6	4	4	4
515	0.032	HEFEI W	4	4	4	4	-	-	-
592	0.0269	LANCHOW	4	3	4	4	4	4	4
714	0.0228	LIUGONGDA	4	2	3	3	3	2	2
377	0.0158	LOUGUANTA	4	1	4	1	4	3	2
460	0.0397	LOUGUANTA	5	4	5	6	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	3	2	3
624	0	LOUGUANTA	6	4	6	4	36	4	4
697	0.0012	LOUGUANTA	6	4	6	4	6	4	4

Males ⇓	MK⇓	Females ⇒ / MK⇒ / Location	766 / 0.0322 / BEIJING	784 / 0.0191 / BEIJING	673 / 0.03 / CHENGCHOW	691 / 0.0136 / CHENGCHOW	362 / 0.0281 / CHENPANDA	387 / 0.0215 / CHENPANDA	401 / 0.0197 / CHENPANDA
703	0	LOUGUANTA	6	4	6	4	6	4	4
753	0.0079	LOUGUANTA	6	3	4	2	4	4	3
802	0	LOUGUANTA	6	4	6	4	6	4	4
803	0	LOUGUANTA	6	4	6	4	6	4	4
520	0.0258	LUOYANG	4	3	4	3	4	3	3
519	0.0264	MADRID Z	4	3	4	4	4	3	3
792	0.0242	MADRID Z	4	3	4	3	4	4	4
793	0.0242	MADRID Z	4	3	4	3	4	4	4
466	0.0202	MEMPHIS	4	2	3	2	3	2	2
399	0.0427	NANCHANG	5	4	5	6	4	4	4
707	0.0356	NINGBO	6	4	4	4	4	4	4
708	0.0356	NINGBO	6	4	4	4	4	4	4
458	0.0348	NZP-WASH	5	4	-	4	4	4	4
609	0.0172	PANYU	4	2	4	1	3	3	2
613	0.0226	PANYU	4	2	3	3	3	2	2
742	0.0284	PANYU	4	6	4	4	4	3	3
744	0.0264	PANYU	4	3	4	4	4	3	3
747	0.022	PANYU	4	2	3	3	3	2	2
750	0.0309	PANYU	4	4	4	4	4	3	3
415	0.0044	SANDIEGOZ	6	4	6	3	4	4	4
749	0.025	SANDIEGOZ	4	3	4	3	4	2	3
357	0.0024	SHANGHAI	6	4	6	2	6	4	4
492	0.0307	SHANGHAI	4	3	4	4	4	3	3
583	0.0362	SHANGHAI	6	4	4	4	4	4	4
745	0.0258	SHANGHAI	4	3	4	4	4	3	3
746	0.0258	SHANGHAI	4	3	4	4	4	3	3
752	0.0129	SHANGHAI	4	4	6	6	4	3	2
588	0.0316	TAIPEI	4	4	4	4	4	4	3
659	0	TAIYUAN	6	4	6	4	6	4	4
589	0.0316	TIANJIN	4	4	4	4	4	4	3
721	0.03	TIANMUHU	4	3	4	4	4	3	3
612	0.0362	TOKYOUENO	6	4	4	4	4	4	4
526	0.019	VIENNA	4	2	3	2	3	2	2
789	0.0272	VIENNA	4	3	4	4	4	3	3
390	0.0243	WAKAYAMA	4	-	-	-	2	2	3
738	0.0305	WAKAYAMA	4	4	4	4	4	3	3
782	0.0305	WAKAYAMA	4	4	4	4	4	3	3
713	0.02	WEIFANG	3	2	3	2	3	2	2
715	0.0257	WEIFANG	4	3	4	3	-	4	4
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	3	4	4	4	3	3
639	0.0297	WENLING S	4	3	4	4	4	3	3
530	0.0327	WENZHOU	4	4	4	4	-	-	4
670	0.0368	WENZHOU	4	4	4	4	4	4	4
777	0.0122	WOLONG	4	2	4	1	4	3	2
807	0.0222	WOLONG	4	6	4	3	3	2	2
809	0.028	WOLONG	4	6	4	4	4	3	3
607	0.026	WUHAN	4	4	4	4	4	3	3
619	0.0316	WUHAN	4	4	4	4	4	4	3
630	0.043	WUXI	4	4	4	6	4	4	4
646	0.0347	WUXI	4	4	4	4	4	4	4
668	0.0257	XIUNING	4	3	4	3	4	3	3
599	0.0323	XIXIAKOU	4	4	4	4	4	4	4
605	0.0433	XIXIAKOU	4	4	5	6	4	4	4
413	0.0303	YAAN BC	4	3	4	4	4	3	3
424	0.0327	YAAN BC	-	4	4	4	4	4	4
467	0.0305	YAAN BC	4	3	4	4	4	4	4
488	0.0225	YAAN BC	4	-	-	-	3	2	2
502	0.017	YAAN BC	4	-	4	1	3	3	2

| Males ⇓ | MK⇓ | Location | 766 | 784 | 673 | 691 | 362 | 387 | 401 |
| | | | 0.0322 | 0.0191 | 0.03 | 0.0136 | 0.0281 | 0.0215 | 0.0197 |
			BEIJING	BEIJING	CHENGCHOW	CHENGCHOW	CHENPANDA	CHENPANDA	CHENPANDA
503	0.0208	YAAN BC	3	2	3	2	3	2	2
542	0	YAAN BC	6	4	6	4	6	4	4
563	0.0252	YAAN BC	4	3	4	3	4	2	3
564	0.0314	YAAN BC	4	4	4	4	4	3	3
579	0.0009	YAAN BC	6	4	6	4	6	4	4
582	0.0202	YAAN BC	4	2	4	2	3	2	2
586	0.0255	YAAN BC	4	3	4	3	4	2	3
594	0	YAAN BC	6	4	6	4	6	4	4
595	0.0255	YAAN BC	4	3	4	3	4	3	3
621	0.0005	YAAN BC	6	4	6	4	6	4	4
623	0.0051	YAAN BC	6	4	6	3	4	4	4
661	0	YAAN BC	6	4	6	4	6	4	4
674	0.0108	YAAN BC	4	6	4	1	4	3	3
685	0.0272	YAAN BC	4	3	4	4	4	3	3
690	0.0199	YAAN BC	4	6	3	2	3	2	2
719	0.0182	YAAN BC	4	2	3	2	3	2	2
743	0.0131	YAAN BC	4	2	4	1	4	3	2
748	0.0137	YAAN BC	4	4	6	6	4	2	2
756	0.0203	YAAN BC	4	2	3	2	3	2	2
758	0.0217	YAAN BC	4	2	3	3	3	2	2
768	0.0336	YAAN BC	5	4	4	4	4	4	4
772	0.0222	YAAN BC	4	4	4	3	3	2	2
773	0.0356	YAAN BC	6	4	4	4	4	4	4
775	0.0104	YAAN BC	4	6	4	1	4	3	3
778	0.0267	YAAN BC	4	4	-	-	4	3	3
786	0.0294	YAAN BC	4	4	-	-	4	3	3
790	0.0311	YAAN BC	4	4	-	-	4	3	3
798	0.0178	YAAN BC	4	2	4	2	3	2	2
688	0.038	YANTAI	4	4	4	6	4	4	4

Males ⇓	MK ⇓	Location	407 / 0.0215 / CHENPANDA	425 / 0.0202 / CHENPANDA	453 / 0.0344 / CHENPANDA	480 / 0.0233 / CHENPANDA	490 / 0.0367 / CHENPANDA	491 / 0.0353 / CHENPANDA	494 / 0.0336 / CHENPANDA
327	0.0014	ABERDE HK	4	4	6	4	6	6	6
606	0.0186	ABERDE HK	2	2	4	-	4	4	4
620	0.026	ADELAIDE	3	3	4	2	4	4	4
627	0.0423	ANJI BAMB	4	4	5	4	-	-	5
629	0.043	ANJI BAMB	4	4	5	4	-	-	5
666	0.0363	ANJI BAMB	4	4	4	-	4	4	4
461	0.018	ATLANTA	2	2	4	3	4	4	-
731	0.0195	ATLANTA	4	-	4	2	4	4	4
801	0.0195	ATLANTA	4	-	4	2	4	4	4
394	0.0482	BEIJING	6	6	5	6	5	5	5
496	0.0369	BEIJING	4	4	4	4	4	4	4
454	0.0321	CHENGDU	4	3	-	4	-	-	-
536	0.0287	CHENGDU	4	-	-	3	-	-	-
342	0.006	CHENPANDA	4	4	6	4	6	6	6
386	0.0202	CHENPANDA	-	2	4	2	4	4	4
455	0.0474	CHENPANDA	6	6	5	4	5	5	5
529	0.0327	CHENPANDA	4	4	-	4	-	-	-
540	0.0285	CHENPANDA	-	4	4	3	-	-	4
573	0.0274	CHENPANDA	-	4	4	2	-	-	4
574	0.0283	CHENPANDA	-	4	4	3	-	-	4
575	0.0325	CHENPANDA	4	4	-	4	-	-	-
584	0.0221	CHENPANDA	2	2	4	-	4	4	4
614	0.0274	CHENPANDA	-	4	4	2	-	-	4
644	0.0418	CHENPANDA	4	4	-	4	5	5	6
649	0.0195	CHENPANDA	4	-	4	2	4	4	4
662	0.0274	CHENPANDA	-	4	4	2	-	-	4
711	0.0154	CHENPANDA	4	3	4	3	4	4	4
717	0.0363	CHENPANDA	4	4	4	-	4	4	4
718	0.0363	CHENPANDA	4	4	4	-	4	4	4
724	0.0161	CHENPANDA	4	3	4	3	4	4	4
726	0.0229	CHENPANDA	2	2	4	2	4	4	-
727	0.0418	CHENPANDA	4	4	-	4	5	5	6
732	0.032	CHENPANDA	4	4	6	4	-	-	-
736	0.0182	CHENPANDA	4	4	4	3	4	4	4
769	0.0272	CHENPANDA	4	-	6	2	6	6	6
770	0.0236	CHENPANDA	2	4	6	2	4	4	6
780	0.0367	CHENPANDA	4	4	5	4	-	-	5
787	0.0197	CHENPANDA	5	-	5	5	5	5	5
788	0.0197	CHENPANDA	5	-	5	5	5	5	5
815	0.043	CHENPANDA	4	4	5	4	-	-	5
825	0.0254	CHENPANDA	4	4	4	4	4	4	4
510	0.0218	CHIANGMAI	2	2	4	2	4	4	4
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	6	-	5	5	-
676	0.0343	CHONGQING	4	4	6	-	5	5	-
525	0.0311	FUCHOW	3	3	4	4	4	4	4
532	0.0282	FUCHOW	3	3	4	3	4	4	4
538	0.036	FUCHOW	4	4	4	4	4	4	4
518	0.0307	GUANGZH Z	3	3	4	4	4	4	4
689	0.0199	GUANGZH Z	2	2	4	2	4	4	4
628	0.0423	GUIZHOU W	4	4	5	4	-	-	5
515	0.032	HEFEI W	4	3	-	4	-	-	-
592	0.0269	LANCHOW	-	4	6	2	-	-	4
714	0.0228	LIUGONGDA	2	2	4	2	4	4	4
377	0.0158	LOUGUANTA	3	3	4	3	4	4	4
460	0.0397	LOUGUANTA	4	4	4	4	4	4	4
553	0.0238	LOUGUANTA	-	4	4	2	4	4	4
624	0	LOUGUANTA	4	4	6	4	6	6	6
697	0.0012	LOUGUANTA	4	4	6	4	6	6	6

Males ⇓	MK⇓	Location	Females ⇒ 407 0.0215 CHENPANDA	425 0.0202 CHENPANDA	453 0.0344 CHENPANDA	480 0.0233 CHENPANDA	490 0.0367 CHENPANDA	491 0.0353 CHENPANDA	494 0.0336 CHENPANDA
703	0	LOUGUANTA	4	4	6	4	6	6	6
753	0.0079	LOUGUANTA	4	4	6	4	6	6	6
802	0	LOUGUANTA	4	4	6	4	6	6	6
803	0	LOUGUANTA	4	4	6	4	6	6	6
520	0.0258	LUOYANG	3	-	-	2	-	-	-
519	0.0264	MADRID Z	3	-	-	2	-	-	-
792	0.0242	MADRID Z	2	4	6	2	4	4	4
793	0.0242	MADRID Z	2	4	6	2	4	4	4
466	0.0202	MEMPHIS	2	2	4	-	4	4	4
399	0.0427	NANCHANG	4	4	4	4	5	4	4
707	0.0356	NINGBO	4	4	4	-	4	4	4
708	0.0356	NINGBO	4	4	4	-	4	4	4
458	0.0348	NZP-WASH	4	4	4	4	4	4	4
609	0.0172	PANYU	3	2	4	3	4	4	4
613	0.0226	PANYU	2	2	4	-	4	4	4
742	0.0284	PANYU	3	3	4	3	4	4	4
744	0.0264	PANYU	3	3	4	2	4	4	4
747	0.022	PANYU	4	4	4	2	4	4	4
750	0.0309	PANYU	3	3	4	4	4	4	4
415	0.0044	SANDIEGOZ	4	4	6	4	6	6	6
749	0.025	SANDIEGOZ	2	3	4	2	4	4	4
357	0.0024	SHANGHAI	4	4	6	4	6	6	6
492	0.0307	SHANGHAI	3	3	4	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	-	4	4	4
745	0.0258	SHANGHAI	3	3	4	2	4	4	4
746	0.0258	SHANGHAI	3	3	4	2	4	4	4
752	0.0129	SHANGHAI	3	2	4	3	4	4	4
588	0.0316	TAIPEI	4	3	4	-	4	4	4
659	0	TAIYUAN	4	4	6	4	6	6	6
589	0.0316	TIANJIN	4	3	4	-	4	4	4
721	0.03	TIANMUHU	3	3	4	4	4	4	4
612	0.0362	TOKYOUENO	4	4	4	-	4	4	4
526	0.019	VIENNA	2	2	4	3	4	4	4
789	0.0272	VIENNA	3	3	4	2	4	4	4
390	0.0243	WAKAYAMA	2	3	4	2	4	4	4
738	0.0305	WAKAYAMA	4	4	4	4	-	-	4
782	0.0305	WAKAYAMA	4	4	4	4	-	-	4
713	0.02	WEIFANG	2	2	4	2	4	4	4
715	0.0257	WEIFANG	3	3	6	2	4	4	-
633	0.0323	WENLING S	4	3	4	-	4	4	4
636	0.0303	WENLING S	3	3	4	4	4	4	4
639	0.0297	WENLING S	3	3	4	3	4	4	4
530	0.0327	WENZHOU	4	4	-	4	-	-	-
670	0.0368	WENZHOU	4	4	4	4	4	4	4
777	0.0122	WOLONG	3	2	4	3	6	4	4
807	0.0222	WOLONG	2	2	4	2	4	4	4
809	0.028	WOLONG	3	3	4	3	4	4	4
607	0.026	WUHAN	3	3	4	2	4	4	4
619	0.0316	WUHAN	4	3	4	-	4	4	4
630	0.043	WUXI	4	4	5	4	-	-	5
646	0.0347	WUXI	4	-	4	4	4	4	4
668	0.0257	XIUNING	3	3	4	2	4	4	4
599	0.0323	XIXIAKOU	4	3	4	4	4	4	4
605	0.0433	XIXIAKOU	4	4	4	4	5	5	4
413	0.0303	YAAN BC	3	3	4	4	4	4	4
424	0.0327	YAAN BC	4	4	4	-	4	4	4
467	0.0305	YAAN BC	3	3	-	4	-	-	-
488	0.0225	YAAN BC	2	22	4	2	4	4	4
502	0.017	YAAN BC	3	2	4	3	4	4	4

2012 MSI Table   **Yellow Hilights are female to be bred and the males they can be bred with**

Males ⇩	MK⇩	Location	407 0.0215 CHENPANDA	425 0.0202 CHENPANDA	453 0.0344 CHENPANDA	480 0.0233 CHENPANDA	490 0.0367 CHENPANDA	491 0.0353 CHENPANDA	494 0.0336 CHENPANDA
		Females ⇨ MK⇨ Location							
503	0.0208	YAAN BC	2	2	4	2	4	4	4
542	0	YAAN BC	4	4	6	4	6	6	6
563	0.0252	YAAN BC	2	3	4	2	4	4	4
564	0.0314	YAAN BC	3	3	4	4	4	4	4
579	0.0009	YAAN BC	4	4	6	4	6	6	6
582	0.0202	YAAN BC	2	2	4	2	4	4	4
586	0.0255	YAAN BC	2	3	4	2	4	4	4
594	0	YAAN BC	4	4	6	4	6	6	6
595	0.0255	YAAN BC	4	4	4	2	4	4	4
621	0.0005	YAAN BC	4	4	6	4	6	6	6
623	0.0051	YAAN BC	4	4	6	4	6	6	6
661	0	YAAN BC	4	4	6	4	6	6	6
674	0.0108	YAAN BC	3	3	4	4	6	6	4
685	0.0272	YAAN BC	3	3	4	2	4	4	4
690	0.0199	YAAN BC	2	2	4	2	4	4	4
719	0.0182	YAAN BC	2	2	4	-	4	4	4
743	0.0131	YAAN BC	3	2	4	3	4	4	4
748	0.0137	YAAN BC	2	2	4	3	4	4	4
756	0.0203	YAAN BC	2	2	4	2	4	4	4
758	0.0217	YAAN BC	2	2	4	2	4	4	4
768	0.0336	YAAN BC	4	4	4	-	4	4	4
772	0.0222	YAAN BC	2	2	4	2	4	4	4
773	0.0356	YAAN BC	4	4	4	-	4	4	4
775	0.0104	YAAN BC	3	3	4	4	6	6	4
778	0.0267	YAAN BC	3	3	4	2	4	4	4
786	0.0294	YAAN BC	3	3	4	3	4	4	4
790	0.0311	YAAN BC	3	3	4	4	4	4	4
798	0.0178	YAAN BC	2	2	4	3	4	4	4
688	0.038	YANTAI	4	4	4	4	4	4	4

Males ⇓	MK⇓	Location	522 / 0.0229 CHENPANDA	523 / 0.0243 CHENPANDA	537 / 0.032 CHENPANDA	554 / 0.0327 CHENPANDA	555 / 0.0331 CHENPANDA	561 / 0.0188 CHENPANDA	570 / 0.0336 CHENPANDA
327	0.0014	ABERDE HK	4	4	6	6	6	4	6
606	0.0186	ABERDE HK	3	3	4	4	4	2	4
620	0.026	ADELAIDE	2	2	4	4	4	3	4
627	0.0423	ANJI BAMB	4	4	5	5	5	4	5
629	0.043	ANJI BAMB	4	4	5	5	5	4	5
666	0.0363	ANJI BAMB	4	4	4	4	4	4	4
461	0.018	ATLANTA	4	4	4	-	-	2	-
731	0.0195	ATLANTA	4	4	4	4	4	4	4
801	0.0195	ATLANTA	4	4	4	4	4	4	4
394	0.0482	BEIJING	6	4	5	5	5	6	5
496	0.0369	BEIJING	4	4	4	4	4	4	4
454	0.0321	CHENGDU	4	4	-	-	-	4	-
536	0.0287	CHENGDU	3	3	-	-	-	4	-
342	0.006	CHENPANDA	4	4	6	6	6	4	6
386	0.0202	CHENPANDA	-	-	3	4	4	-	4
455	0.0474	CHENPANDA	6	4	5	5	5	6	5
529	0.0327	CHENPANDA	4	4	-	-	-	4	-
540	0.0285	CHENPANDA	4	4	4	4	4	4	4
573	0.0274	CHENPANDA	4	4	4	4	4	4	4
574	0.0283	CHENPANDA	4	4	4	4	4	4	4
575	0.0325	CHENPANDA	4	4	-	-	-	4	-
584	0.0221	CHENPANDA	2	2	4	4	4	2	4
614	0.0274	CHENPANDA	4	4	4	4	4	4	4
644	0.0418	CHENPANDA	4	4	-	6	6	4	6
649	0.0195	CHENPANDA	4	4	4	4	4	4	4
662	0.0274	CHENPANDA	4	4	4	4	4	4	4
711	0.0154	CHENPANDA	-	-	4	4	4	4	4
717	0.0363	CHENPANDA	4	4	4	4	4	4	4
718	0.0363	CHENPANDA	4	4	4	4	4	4	4
724	0.0161	CHENPANDA	-	-	4	4	4	4	4
726	0.0229	CHENPANDA	4	4	4	-	-	3	-
727	0.0418	CHENPANDA	4	4	-	6	6	4	6
732	0.032	CHENPANDA	4	4	6	-	-	4	-
736	0.0182	CHENPANDA	4	4	4	4	4	-	4
769	0.0272	CHENPANDA	4	4	6	6	6	4	6
770	0.0236	CHENPANDA	4	4	6	6	6	4	6
780	0.0367	CHENPANDA	4	4	5	5	5	4	5
787	0.0197	CHENPANDA	-	-	5	5	5	-	5
788	0.0197	CHENPANDA	-	-	5	5	5	-	5
815	0.043	CHENPANDA	4	4	5	5	5	4	5
825	0.0254	CHENPANDA	-	-	4	4	4	4	4
510	0.0218	CHIANGMAI	2	2	4	4	4	2	4
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	6	-	-	4	-
676	0.0343	CHONGQING	4	4	6	-	-	4	-
525	0.0311	FUCHOW	4	4	4	4	4	4	4
532	0.0282	FUCHOW	3	2	4	4	4	3	4
538	0.036	FUCHOW	4	4	4	4	4	4	4
518	0.0307	GUANGZH Z	4	4	4	4	4	3	4
689	0.0199	GUANGZH Z	2	3	3	4	4	2	4
628	0.0423	GUIZHOU W	4	4	5	5	5	4	5
515	0.032	HEFEI W	4	4	-	-	-	4	-
592	0.0269	LANCHOW	6	6	6	4	4	4	4
714	0.0228	LIUGONGDA	2	2	4	4	4	2	4
377	0.0158	LOUGUANTA	3	3	4	4	4	1	4
460	0.0397	LOUGUANTA	4	4	4	4	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	4	4	4
624	0	LOUGUANTA	4	6	6	56	6	54	6
697	0.0012	LOUGUANTA	4	4	6	6	6	4	6

2012 MSI Table   **Yellow Hilights are female to be bred and the males they can be bred with**

Males ⇩	MK⇩	Location	522 0.0229 CHENPANDA	523 0.0243 CHENPANDA	537 0.032 CHENPANDA	554 0.0327 CHENPANDA	555 0.0331 CHENPANDA	561 0.0188 CHENPANDA	570 0.0336 CHENPANDA
		Females ⇨ MK⇨ Location							
703	0	LOUGUANTA	4	6	6	6	6	4	6
753	0.0079	LOUGUANTA	4	4	4	6	6	3	6
802	0	LOUGUANTA	4	6	6	6	6	4	6
803	0	LOUGUANTA	4	6	6	6	6	4	6
520	0.0258	LUOYANG	2	2	-	-	-	-	-
519	0.0264	MADRID Z	2	2	-	-	-	-	-
792	0.0242	MADRID Z	4	4	6	4	4	4	4
793	0.0242	MADRID Z	4	4	6	4	4	4	4
466	0.0202	MEMPHIS	2	3	3	4	4	2	4
399	0.0427	NANCHANG	4	4	4	4	4	4	4
707	0.0356	NINGBO	4	4	4	4	4	4	4
708	0.0356	NINGBO	4	4	4	4	4	4	4
458	0.0348	NZP-WASH	4	4	4	4	4	4	4
609	0.0172	PANYU	3	3	4	4	4	2	4
613	0.0226	PANYU	2	2	4	4	4	2	4
742	0.0284	PANYU	3	2	4	4	4	3	4
744	0.0264	PANYU	2	2	4	4	4	3	4
747	0.022	PANYU	2	2	4	4	4	2	4
750	0.0309	PANYU	4	4	4	4	4	3	4
415	0.0044	SANDIEGOZ	4	4	6	6	6	4	6
749	0.025	SANDIEGOZ	2	2	4	4	4	3	4
357	0.0024	SHANGHAI	4	4	6	6	6	4	6
492	0.0307	SHANGHAI	4	4	4	4	4	3	4
583	0.0362	SHANGHAI	4	4	4	4	4	4	4
745	0.0258	SHANGHAI	2	2	4	4	4	3	4
746	0.0258	SHANGHAI	2	2	4	4	4	3	4
752	0.0129	SHANGHAI	3	3	4	4	4	2	4
588	0.0316	TAIPEI	4	4	4	4	4	4	4
659	0	TAIYUAN	4	6	6	6	6	4	6
589	0.0316	TIANJIN	4	4	4	4	4	4	4
721	0.03	TIANMUHU	3	4	4	4	4	3	4
612	0.0362	TOKYOUENO	4	4	4	4	4	4	4
526	0.019	VIENNA	2	3	4	4	4	2	4
789	0.0272	VIENNA	3	2	4	4	4	3	4
390	0.0243	WAKAYAMA	2	2	4	4	4	3	4
738	0.0305	WAKAYAMA	4	4	4	4	4	4	4
782	0.0305	WAKAYAMA	4	4	4	4	4	4	4
713	0.02	WEIFANG	2	3	3	4	4	2	4
715	0.0257	WEIFANG	4	4	6	-	-	3	-
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	4	4	4	4	3	4
639	0.0297	WENLING S	3	4	4	4	4	3	4
530	0.0327	WENZHOU	4	4	-	-	-	4	-
670	0.0368	WENZHOU	-	-	4	4	4	4	4
777	0.0122	WOLONG	3	3	4	4	4	2	4
807	0.0222	WOLONG	2	2	4	4	4	2	4
809	0.028	WOLONG	3	2	4	4	4	3	4
607	0.026	WUHAN	2	2	4	4	4	3	4
619	0.0316	WUHAN	4	4	4	4	4	4	4
630	0.043	WUXI	4	4	5	5	5	4	5
646	0.0347	WUXI	4	4	4	4	4	4	4
668	0.0257	XIUNING	2	2	4	4	4	3	4
599	0.0323	XIXIAKOU	4	4	4	4	4	4	4
605	0.0433	XIXIAKOU	4	4	4	4	4	6	4
413	0.0303	YAAN BC	4	4	4	4	4	3	4
424	0.0327	YAAN BC	4	4	4	4	4	4	4
467	0.0305	YAAN BC	-	-	-	-	-	3	-
488	0.0225	YAAN BC	2	2	54	4	4	2	4
502	0.017	YAAN BC	3	3	4	4	4	2	4

Males ⇩	MK⇩	Location	522 0.0229 CHENPANDA	523 0.0243 CHENPANDA	537 0.032 CHENPANDA	554 0.0327 CHENPANDA	555 0.0331 CHENPANDA	561 0.0188 CHENPANDA	570 0.0336 CHENPANDA
503	0.0208	YAAN BC	2	2	3	4	4	2	4
542	0	YAAN BC	4	6	6	6	6	4	6
563	0.0252	YAAN BC	2	2	4	4	4	3	4
564	0.0314	YAAN BC	4	4	4	4	4	4	4
579	0.0009	YAAN BC	4	4	6	6	6	4	6
582	0.0202	YAAN BC	2	3	3	4	4	2	4
586	0.0255	YAAN BC	2	2	4	4	4	3	4
594	0	YAAN BC	4	6	6	6	6	4	6
595	0.0255	YAAN BC	2	2	4	4	4	3	4
621	0.0005	YAAN BC	4	4	6	6	6	4	6
623	0.0051	YAAN BC	4	4	6	6	6	4	6
661	0	YAAN BC	4	6	6	6	6	4	6
674	0.0108	YAAN BC	3	4	4	4	4	2	4
685	0.0272	YAAN BC	3	2	4	4	4	3	4
690	0.0199	YAAN BC	2	3	3	4	4	2	4
719	0.0182	YAAN BC	3	3	4	4	4	2	4
743	0.0131	YAAN BC	3	3	4	4	4	2	4
748	0.0137	YAAN BC	3	3	4	4	4	2	4
756	0.0203	YAAN BC	2	2	3	4	4	2	4
758	0.0217	YAAN BC	2	2	4	4	4	2	4
768	0.0336	YAAN BC	4	4	4	4	4	4	4
772	0.0222	YAAN BC	2	2	4	4	4	2	4
773	0.0356	YAAN BC	4	4	4	4	4	4	4
775	0.0104	YAAN BC	4	4	4	4	4	3	4
778	0.0267	YAAN BC	2	2	4	4	4	3	4
786	0.0294	YAAN BC	3	4	4	4	4	3	4
790	0.0311	YAAN BC	4	4	4	4	4	4	4
798	0.0178	YAAN BC	3	3	4	4	4	2	4
688	0.038	YANTAI	4	4	4	4	4	4	4

Males ⇩	MK⇩	Location	593	598	635	637	645	665	667
		Females ⇨							
		MK⇨	0.0338	0.0251	0.0345	0.0251	0.0347	0.031	0.0363
		Location	CHENPANDA	CHENPANDA	CHENPANDA	CHENPANDA	CHENPANDA	CHENPANDA	CHENPANDA
327	0.0014	ABERDE HK	6	4	6	4	6	6	6
606	0.0186	ABERDE HK	4	3	4	3	4	4	4
620	0.026	ADELAIDE	4	2	-	2	-	-	-
627	0.0423	ANJI BAMB	-	4	-	4	-	-	-
629	0.043	ANJI BAMB	6	4	-	4	-	-	-
666	0.0363	ANJI BAMB	4	4	-	4	-	-	-
461	0.018	ATLANTA	4	-	4	-	4	4	4
731	0.0195	ATLANTA	4	4	4	4	4	4	4
801	0.0195	ATLANTA	4	4	4	4	4	4	4
394	0.0482	BEIJING	5	4	5	4	5	5	5
496	0.0369	BEIJING	4	4	4	4	4	4	4
454	0.0321	CHENGDU	-	4	5	4	4	4	4
536	0.0287	CHENGDU	-	4	4	4	-	4	4
342	0.006	CHENPANDA	6	4	-	4	6	6	6
386	0.0202	CHENPANDA	4	-	4	-	4	3	4
455	0.0474	CHENPANDA	5	4	-	4	-	-	-
529	0.0327	CHENPANDA	-	-	4	-	4	4	4
540	0.0285	CHENPANDA	4	4	4	4	4	4	4
573	0.0274	CHENPANDA	4	4	4	4	4	4	4
574	0.0283	CHENPANDA	4	4	4	4	4	4	4
575	0.0325	CHENPANDA	-	4	5	4	4	4	4
584	0.0221	CHENPANDA	4	2	4	2	4	4	-
614	0.0274	CHENPANDA	4	4	4	4	4	4	4
644	0.0418	CHENPANDA	5	4	-	4	-	-	-
649	0.0195	CHENPANDA	4	4	4	4	4	4	4
662	0.0274	CHENPANDA	4	4	4	4	4	4	4
711	0.0154	CHENPANDA	4	4	4	4	4	4	4
717	0.0363	CHENPANDA	4	4	-	4	-	-	-
718	0.0363	CHENPANDA	4	4	-	4	-	-	-
724	0.0161	CHENPANDA	4	4	4	4	4	4	4
726	0.0229	CHENPANDA	4	-	4	-	4	4	4
727	0.0418	CHENPANDA	5	4	-	4	-	-	-
732	0.032	CHENPANDA	6	4	4	4	4	4	4
736	0.0182	CHENPANDA	4	4	4	4	4	4	4
769	0.0272	CHENPANDA	6	4	4	4	-	4	4
770	0.0236	CHENPANDA	4	4	-	4	4	4	4
780	0.0367	CHENPANDA	6	4	5	4	5	5	6
787	0.0197	CHENPANDA	5	-	5	-	5	-	5
788	0.0197	CHENPANDA	5	-	5	-	5	-	5
815	0.043	CHENPANDA	6	4	-	4	-	-	-
825	0.0254	CHENPANDA	4	4	4	4	4	4	4
510	0.0218	CHIANGMAI	4	2	6	2	6	6	6
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	5	4	4	4	4	4	5
676	0.0343	CHONGQING	5	6	4	4	4	4	5
525	0.0311	FUCHOW	4	4	4	4	4	4	4
532	0.0282	FUCHOW	4	4	4	4	4	4	4
538	0.036	FUCHOW	4	4	4	4	4	4	4
518	0.0307	GUANGZH Z	4	4	4	4	4	4	4
689	0.0199	GUANGZH Z	4	3	4	3	4	4	4
628	0.0423	GUIZHOU W	-	4	-	4	-	-	-
515	0.032	HEFEI W	-	4	5	4	4	4	4
592	0.0269	LANCHOW	-	4	4	4	4	4	4
714	0.0228	LIUGONGDA	4	2	4	2	4	4	4
377	0.0158	LOUGUANTA	4	3	4	3	4	4	4
460	0.0397	LOUGUANTA	4	4	4	4	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	4	4	4
624	0	LOUGUANTA	6	56	6	6	6	65	6
697	0.0012	LOUGUANTA	6	4	6	4	6	6	6

Males ⇓	MK⇓	Location	Females ⇒ 593 MK⇒ 0.0338 CHENPANDA	598 0.0251 CHENPANDA	635 0.0345 CHENPANDA	637 0.0251 CHENPANDA	645 0.0347 CHENPANDA	665 0.031 CHENPANDA	667 0.0363 CHENPANDA
703	0	LOUGUANTA	6	6	6	6	6	6	6
753	0.0079	LOUGUANTA	6	4	6	4	6	4	6
802	0	LOUGUANTA	6	6	6	6	6	6	6
803	0	LOUGUANTA	6	6	6	6	6	6	6
520	0.0258	LUOYANG	-	2	4	2	4	-	4
519	0.0264	MADRID Z	-	2	4	2	4	-	4
792	0.0242	MADRID Z	6	4	4	4	4	4	4
793	0.0242	MADRID Z	6	4	4	4	4	4	4
466	0.0202	MEMPHIS	4	3	4	3	4	3	-
399	0.0427	NANCHANG	4	4	4	4	4	4	5
707	0.0356	NINGBO	4	4	4	4	4	4	5
708	0.0356	NINGBO	4	4	4	4	4	4	5
458	0.0348	NZP-WASH	4	4	4	4	4	4	4
609	0.0172	PANYU	4	3	4	3	4	4	4
613	0.0226	PANYU	4	2	4	2	4	4	4
742	0.0284	PANYU	4	4	4	4	4	4	4
744	0.0264	PANYU	4	2	4	2	4	4	4
747	0.022	PANYU	4	2	4	2	4	3	4
750	0.0309	PANYU	4	4	4	4	4	4	4
415	0.0044	SANDIEGOZ	6	4	6	4	6	6	6
749	0.025	SANDIEGOZ	4	2	4	2	4	4	4
357	0.0024	SHANGHAI	6	4	6	4	6	6	6
492	0.0307	SHANGHAI	4	4	4	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	4	4	4	5
745	0.0258	SHANGHAI	4	2	4	2	4	4	4
746	0.0258	SHANGHAI	4	2	4	2	4	4	4
752	0.0129	SHANGHAI	4	4	4	4	4	4	4
588	0.0316	TAIPEI	4	4	4	4	4	4	5
659	0	TAIYUAN	6	6	6	6	6	6	6
589	0.0316	TIANJIN	4	4	4	4	4	4	5
721	0.03	TIANMUHU	4	4	4	4	4	4	4
612	0.0362	TOKYOUENO	4	4	4	4	4	4	5
526	0.019	VIENNA	4	3	4	3	4	4	4
789	0.0272	VIENNA	4	2	4	2	4	4	4
390	0.0243	WAKAYAMA	4	2	4	2	4	4	4
738	0.0305	WAKAYAMA	6	4	4	4	4	4	4
782	0.0305	WAKAYAMA	6	4	4	4	4	4	4
713	0.02	WEIFANG	4	3	4	3	4	4	4
715	0.0257	WEIFANG	4	4	4	4	4	4	4
633	0.0323	WENLING S	4	4	4	4	4	4	5
636	0.0303	WENLING S	4	4	4	4	4	4	4
639	0.0297	WENLING S	4	4	4	4	4	4	4
530	0.0327	WENZHOU	-	-	4	-	4	4	4
670	0.0368	WENZHOU	4	4	-	4	-	-	-
777	0.0122	WOLONG	4	4	4	4	4	4	4
807	0.0222	WOLONG	4	2	4	2	4	4	4
809	0.028	WOLONG	4	2	4	2	4	4	4
607	0.026	WUHAN	4	2	4	2	4	4	4
619	0.0316	WUHAN	4	4	4	4	4	4	5
630	0.043	WUXI	6	4	-	4	-	-	-
646	0.0347	WUXI	4	4	-	4	-	-	-
668	0.0257	XIUNING	4	2	4	2	4	4	4
599	0.0323	XIXIAKOU	4	4	-	4	-	-	-
605	0.0433	XIXIAKOU	4	4	-	4	-	-	-
413	0.0303	YAAN BC	4	4	4	4	4	4	4
424	0.0327	YAAN BC	4	4	4	4	4	4	-
467	0.0305	YAAN BC	-	4	4	4	4	4	4
488	0.0225	YAAN BC	54	2	44	2	4	4	4
502	0.017	YAAN BC	4	3	4	3	4	4	4

Males ⇩	MK⇩	Location	593 0.0338 CHENPANDA	598 0.0251 CHENPANDA	635 0.0345 CHENPANDA	637 0.0251 CHENPANDA	645 0.0347 CHENPANDA	665 0.031 CHENPANDA	667 0.0363 CHENPANDA
503	0.0208	YAAN BC	4	3	4	3	4	3	4
542	0	YAAN BC	6	6	6	6	6	6	6
563	0.0252	YAAN BC	4	2	4	2	4	4	4
564	0.0314	YAAN BC	4	4	4	4	4	4	4
579	0.0009	YAAN BC	6	4	6	4	6	6	6
582	0.0202	YAAN BC	4	3	4	3	4	4	4
586	0.0255	YAAN BC	4	2	4	2	4	4	4
594	0	YAAN BC	6	6	6	6	6	6	6
595	0.0255	YAAN BC	4	2	4	2	4	4	4
621	0.0005	YAAN BC	6	6	6	6	6	6	6
623	0.0051	YAAN BC	6	4	6	4	6	6	6
661	0	YAAN BC	6	6	6	6	6	6	6
674	0.0108	YAAN BC	4	4	4	4	4	4	6
685	0.0272	YAAN BC	4	2	4	2	4	4	4
690	0.0199	YAAN BC	4	3	4	3	4	4	4
719	0.0182	YAAN BC	4	3	4	3	4	4	4
743	0.0131	YAAN BC	4	3	4	3	4	4	4
748	0.0137	YAAN BC	4	3	4	3	4	4	4
756	0.0203	YAAN BC	4	3	4	3	4	3	4
758	0.0217	YAAN BC	4	2	4	2	4	4	4
768	0.0336	YAAN BC	4	4	4	4	4	4	5
772	0.0222	YAAN BC	4	2	4	2	4	4	4
773	0.0356	YAAN BC	4	4	4	4	4	4	5
775	0.0104	YAAN BC	4	4	4	4	6	4	6
778	0.0267	YAAN BC	4	2	4	2	4	4	4
786	0.0294	YAAN BC	4	4	4	4	4	4	4
790	0.0311	YAAN BC	4	4	4	4	4	4	4
798	0.0178	YAAN BC	4	3	4	3	4	4	4
688	0.038	YANTAI	4	4	5	4	5	5	5

Males ⇩	MK⇩	Location	671 0.0368 CHENPANDA	680 0.0209 CHENPANDA	681 0.024 CHENPANDA	709 0.0264 CHENPANDA	710 0.0264 CHENPANDA	722 0.043 CHENPANDA	723 0.043 CHENPANDA
327	0.0014	ABERDE HK	6	4	4	6	6	6	6
606	0.0186	ABERDE HK	4	2	3	3	3	6	6
620	0.026	ADELAIDE	-	3	2	2	2	-	-
627	0.0423	ANJI BAMB	-	4	4	-	-	-	-
629	0.043	ANJI BAMB	-	4	4	5	5	-	-
666	0.0363	ANJI BAMB	-	4	4	4	4	-	-
461	0.018	ATLANTA	4	4	4	3	3	6	6
731	0.0195	ATLANTA	4	4	4	4	4	4	4
801	0.0195	ATLANTA	4	4	4	4	4	4	4
394	0.0482	BEIJING	5	6	6	4	4	5	5
496	0.0369	BEIJING	4	4	4	4	4	5	5
454	0.0321	CHENGDU	4	4	-	4	4	5	5
536	0.0287	CHENGDU	4	3	6	4	4	5	5
342	0.006	CHENPANDA	6	-	-	4	4	6	6
386	0.0202	CHENPANDA	-	-	2	4	4	4	4
455	0.0474	CHENPANDA	-	6	4	4	4	-	-
529	0.0327	CHENPANDA	4	4	6	4	4	5	5
540	0.0285	CHENPANDA	4	4	3	4	4	5	5
573	0.0274	CHENPANDA	4	4	2	4	4	5	5
574	0.0283	CHENPANDA	4	4	3	4	4	5	5
575	0.0325	CHENPANDA	4	4	-	4	4	5	5
584	0.0221	CHENPANDA	4	2	2	-	-	4	4
614	0.0274	CHENPANDA	4	4	2	4	4	5	5
644	0.0418	CHENPANDA	-	4	5	4	4	-	-
649	0.0195	CHENPANDA	4	4	4	4	4	4	4
662	0.0274	CHENPANDA	4	4	2	4	4	5	5
711	0.0154	CHENPANDA	4	-	4	3	3	6	6
717	0.0363	CHENPANDA	-	4	4	4	4	-	-
718	0.0363	CHENPANDA	-	4	4	4	4	-	-
724	0.0161	CHENPANDA	-	-	4	3	3	6	6
726	0.0229	CHENPANDA	4	4	4	-	-	4	4
727	0.0418	CHENPANDA	-	4	5	4	4	-	-
732	0.032	CHENPANDA	4	4	4	4	4	5	5
736	0.0182	CHENPANDA	4	4	4	-	-	6	6
769	0.0272	CHENPANDA	4	4	6	4	4	4	4
770	0.0236	CHENPANDA	4	-	-	4	4	4	4
780	0.0367	CHENPANDA	5	4	4	6	6	-	-
787	0.0197	CHENPANDA	5	-	5	5	5	5	5
788	0.0197	CHENPANDA	5	-	5	5	5	5	5
815	0.043	CHENPANDA	-	4	4	5	5	-	-
825	0.0254	CHENPANDA	-	4	4	4	4	4	4
510	0.0218	CHIANGMAI	6	2	2	3	3	6	6
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	4	4	4	4	4
676	0.0343	CHONGQING	4	4	4	4	4	4	4
525	0.0311	FUCHOW	4	3	4	4	4	4	4
532	0.0282	FUCHOW	4	3	3	4	4	4	4
538	0.036	FUCHOW	4	4	4	4	4	5	5
518	0.0307	GUANGZH Z	4	3	4	4	4	4	4
689	0.0199	GUANGZH Z	4	2	3	3	3	4	4
628	0.0423	GUIZHOU W	-	4	4	-	-	-	-
515	0.032	HEFEI W	4	4	-	4	4	5	5
592	0.0269	LANCHOW	4	4	4	4	4	5	5
714	0.0228	LIUGONGDA	4	2	2	2	2	5	5
377	0.0158	LOUGUANTA	4	3	3	-	-	6	6
460	0.0397	LOUGUANTA	4	4	4	4	4	5	5
553	0.0238	LOUGUANTA	4	4	2	4	4	4	4
624	0	LOUGUANTA	6	64	4	6	6	6	6
697	0.0012	LOUGUANTA	6	4	4	6	6	6	6

Males ⇩	MK⇩	Location	671 0.0368 CHENPANDA	680 0.0209 CHENPANDA	681 0.024 CHENPANDA	709 0.0264 CHENPANDA	710 0.0264 CHENPANDA	722 0.043 CHENPANDA	723 0.043 CHENPANDA
703	0	LOUGUANTA	6	4	4	6	6	6	6
753	0.0079	LOUGUANTA	6	4	4	4	4	6	6
802	0	LOUGUANTA	6	4	4	6	6	6	6
803	0	LOUGUANTA	6	4	4	6	6	6	6
520	0.0258	LUOYANG	4	3	-	4	4	5	5
519	0.0264	MADRID Z	4	3	-	4	4	5	5
792	0.0242	MADRID Z	4	4	-	6	6	4	4
793	0.0242	MADRID Z	4	4	-	6	6	4	4
466	0.0202	MEMPHIS	4	2	2	3	3	4	4
399	0.0427	NANCHANG	5	4	4	4	4	5	5
707	0.0356	NINGBO	4	4	4	4	4	5	5
708	0.0356	NINGBO	4	4	4	4	4	5	5
458	0.0348	NZP-WASH	4	4	4	4	4	4	4
609	0.0172	PANYU	4	2	3	3	3	6	6
613	0.0226	PANYU	4	2	2	2	2	4	4
742	0.0284	PANYU	4	3	3	4	4	4	4
744	0.0264	PANYU	4	3	2	2	2	4	4
747	0.022	PANYU	4	2	2	4	4	4	4
750	0.0309	PANYU	4	3	4	4	4	4	4
415	0.0044	SANDIEGOZ	6	4	4	4	4	6	6
749	0.025	SANDIEGOZ	4	3	2	2	2	4	4
357	0.0024	SHANGHAI	6	4	4	4	4	6	6
492	0.0307	SHANGHAI	4	3	4	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	4	4	5	5
745	0.0258	SHANGHAI	4	3	2	2	2	4	4
746	0.0258	SHANGHAI	4	3	2	2	2	4	4
752	0.0129	SHANGHAI	4	2	3	4	4	6	6
588	0.0316	TAIPEI	4	3	4	4	4	4	4
659	0	TAIYUAN	6	4	4	6	6	6	6
589	0.0316	TIANJIN	4	3	4	4	4	4	4
721	0.03	TIANMUHU	4	3	4	4	4	4	4
612	0.0362	TOKYOUENO	4	4	4	4	4	5	5
526	0.019	VIENNA	4	2	3	3	3	4	4
789	0.0272	VIENNA	4	3	2	4	4	4	4
390	0.0243	WAKAYAMA	4	2	2	2	2	4	4
738	0.0305	WAKAYAMA	4	4	4	4	4	5	5
782	0.0305	WAKAYAMA	4	4	4	4	4	5	5
713	0.02	WEIFANG	4	2	2	6	6	4	4
715	0.0257	WEIFANG	4	4	4	-	-	4	4
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	3	4	4	4	4	4
639	0.0297	WENLING S	4	3	4	4	4	4	4
530	0.0327	WENZHOU	4	4	6	4	4	5	5
670	0.0368	WENZHOU	-	4	4	4	4	-	-
777	0.0122	WOLONG	6	3	3	4	4	6	6
807	0.0222	WOLONG	4	2	2	3	3	4	4
809	0.028	WOLONG	4	3	2	4	4	4	4
607	0.026	WUHAN	4	3	2	2	2	4	4
619	0.0316	WUHAN	4	3	4	4	4	4	4
630	0.043	WUXI	-	4	4	5	5	-	-
646	0.0347	WUXI	-	4	4	4	4	-	-
668	0.0257	XIUNING	4	3	2	2	2	4	4
599	0.0323	XIXIAKOU	-	4	4	4	4	-	-
605	0.0433	XIXIAKOU	-	4	4	4	4	-	-
413	0.0303	YAAN BC	4	3	4	4	4	4	4
424	0.0327	YAAN BC	4	4	4	4	4	4	4
467	0.0305	YAAN BC	5	4	6	4	4	5	5
488	0.0225	YAAN BC	4	2	2	2	2	4	4
502	0.017	YAAN BC	4	2	3	3	3	6	6

Males ⇩	MK⇩	Location	671 0.0368 CHENPANDA	680 0.0209 CHENPANDA	681 0.024 CHENPANDA	709 0.0264 CHENPANDA	710 0.0264 CHENPANDA	722 0.043 CHENPANDA	723 0.043 CHENPANDA
		Females ⇨ MK⇨ Location							
503	0.0208	YAAN BC	4	2	2	3	3	4	4
542	0	YAAN BC	6	4	4	6	6	6	6
563	0.0252	YAAN BC	4	3	2	2	2	4	4
564	0.0314	YAAN BC	4	3	4	4	4	4	4
579	0.0009	YAAN BC	6	4	4	6	6	6	6
582	0.0202	YAAN BC	4	2	2	3	3	4	4
586	0.0255	YAAN BC	4	3	2	2	2	4	4
594	0	YAAN BC	6	4	4	6	6	6	6
595	0.0255	YAAN BC	4	3	2	4	4	4	4
621	0.0005	YAAN BC	6	4	4	6	6	6	6
623	0.0051	YAAN BC	6	4	4	4	4	6	6
661	0	YAAN BC	6	4	4	6	6	6	6
674	0.0108	YAAN BC	6	3	4	4	4	6	6
685	0.0272	YAAN BC	4	3	2	4	4	4	4
690	0.0199	YAAN BC	4	2	3	3	3	4	4
719	0.0182	YAAN BC	4	2	3	3	3	6	6
743	0.0131	YAAN BC	4	2	3	4	4	6	6
748	0.0137	YAAN BC	4	2	3	4	4	6	6
756	0.0203	YAAN BC	4	2	2	3	3	4	4
758	0.0217	YAAN BC	4	2	2	3	3	4	4
768	0.0336	YAAN BC	4	4	4	4	4	4	4
772	0.0222	YAAN BC	4	2	2	3	3	4	4
773	0.0356	YAAN BC	4	4	4	4	4	5	5
775	0.0104	YAAN BC	6	3	4	4	4	6	6
778	0.0267	YAAN BC	4	3	2	4	4	4	4
786	0.0294	YAAN BC	4	3	4	4	4	4	4
790	0.0311	YAAN BC	4	3	4	4	4	4	4
798	0.0178	YAAN BC	4	2	3	3	3	6	6
688	0.038	YANTAI	5	4	4	4	4	5	5

Males ⇓	MK⇓	Location	725 0.0161 CHENPANDA	761 0.0195 CHENPANDA	762 0.0195 CHENPANDA	763 0.0258 CHENPANDA	764 0.0264 CHENPANDA	765 0 CHENPANDA	779 0.0367 CHENPANDA
327	0.0014	ABERDE HK	4	4	4	6	6	1	6
606	0.0186	ABERDE HK	1	2	2	3	3	4	4
620	0.026	ADELAIDE	3	3	3	2	2	6	4
627	0.0423	ANJI BAMB	6	4	4	4	4	6	6
629	0.043	ANJI BAMB	6	4	4	4	4	6	-
666	0.0363	ANJI BAMB	4	4	4	4	4	6	6
461	0.018	ATLANTA	4	4	4	4	4	4	4
731	0.0195	ATLANTA	2	4	4	4	4	4	4
801	0.0195	ATLANTA	2	4	4	4	4	4	4
394	0.0482	BEIJING	6	6	6	4	4	6	5
496	0.0369	BEIJING	4	4	4	4	4	6	4
454	0.0321	CHENGDU	4	4	4	6	-	6	5
536	0.0287	CHENGDU	4	3	3	4	4	6	4
342	0.006	CHENPANDA	-	4	4	4	4	1	6
386	0.0202	CHENPANDA	-	2	2	3	3	4	4
455	0.0474	CHENPANDA	6	6	6	4	4	6	6
529	0.0327	CHENPANDA	4	4	4	-	6	6	5
540	0.0285	CHENPANDA	4	3	3	4	4	6	4
573	0.0274	CHENPANDA	4	3	3	4	4	6	4
574	0.0283	CHENPANDA	4	3	3	4	4	6	4
575	0.0325	CHENPANDA	4	4	4	6	-	6	5
584	0.0221	CHENPANDA	3	-	-	6	6	4	6
614	0.0274	CHENPANDA	4	3	3	4	4	6	4
644	0.0418	CHENPANDA	6	4	4	4	-	6	6
649	0.0195	CHENPANDA	2	4	4	4	4	4	4
662	0.0274	CHENPANDA	4	3	3	4	4	6	4
711	0.0154	CHENPANDA	-	4	4	3	4	4	4
717	0.0363	CHENPANDA	4	4	4	4	4	6	6
718	0.0363	CHENPANDA	4	4	4	4	4	6	6
724	0.0161	CHENPANDA	-	4	4	3	4	4	4
726	0.0229	CHENPANDA	4	-	-	-	-	4	4
727	0.0418	CHENPANDA	6	4	4	4	-	6	6
732	0.032	CHENPANDA	4	4	4	4	4	6	5
736	0.0182	CHENPANDA	4	-	-	6	6	4	4
769	0.0272	CHENPANDA	4	4	4	4	4	6	4
770	0.0236	CHENPANDA	4	4	4	4	4	4	4
780	0.0367	CHENPANDA	4	4	4	4	4	6	-
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	4	4	4	4	6	-
825	0.0254	CHENPANDA	-	4	4	4	4	6	4
510	0.0218	CHIANGMAI	3	2	2	2	3	4	4
513	0.0326	CHONGQING	4	4	4	4	4	6	4
648	0.0343	CHONGQING	4	4	4	4	4	6	4
676	0.0343	CHONGQING	4	4	4	4	4	6	4
525	0.0311	FUCHOW	4	3	3	4	4	6	4
532	0.0282	FUCHOW	3	3	3	4	4	6	4
538	0.036	FUCHOW	4	4	4	4	4	6	4
518	0.0307	GUANGZH Z	4	3	3	4	4	6	4
689	0.0199	GUANGZH Z	2	2	2	3	3	4	4
628	0.0423	GUIZHOU W	6	4	4	4	4	6	6
515	0.032	HEFEI W	4	4	4	6	-	6	5
592	0.0269	LANCHOW	4	4	4	4	4	6	4
714	0.0228	LIUGONGDA	3	2	2	2	2	4	4
377	0.0158	LOUGUANTA	1	-	-	-	-	4	4
460	0.0397	LOUGUANTA	4	4	4	4	4	6	4
553	0.0238	LOUGUANTA	4	3	3	2	2	4	4
624	0	LOUGUANTA	4	4	4	6	6	1	6
697	0.0012	LOUGUANTA	4	4	4	6	6	1	6

Males ⇩	MK⇩	Location	725 0.0161 CHENPANDA	761 0.0195 CHENPANDA	762 0.0195 CHENPANDA	763 0.0258 CHENPANDA	764 0.0264 CHENPANDA	765 0 CHENPANDA	779 0.0367 CHENPANDA
703	0	LOUGUANTA	4	4	4	6	6	1	6
753	0.0079	LOUGUANTA	3	4	4	4	4	1	6
802	0	LOUGUANTA	4	4	4	6	6	1	6
803	0	LOUGUANTA	4	4	4	6	6	1	6
520	0.0258	LUOYANG	3	3	3	4	4	6	4
519	0.0264	MADRID Z	3	3	3	4	4	6	4
792	0.0242	MADRID Z	4	4	4	6	6	6	4
793	0.0242	MADRID Z	4	4	4	6	6	6	4
466	0.0202	MEMPHIS	3	2	2	3	3	4	4
399	0.0427	NANCHANG	6	4	4	4	4	6	5
707	0.0356	NINGBO	4	4	4	4	4	6	4
708	0.0356	NINGBO	4	4	4	4	4	6	4
458	0.0348	NZP-WASH	4	4	4	4	4	6	4
609	0.0172	PANYU	1	2	2	3	3	4	4
613	0.0226	PANYU	3	2	2	2	2	4	4
742	0.0284	PANYU	4	3	3	4	4	6	4
744	0.0264	PANYU	3	3	3	2	2	6	4
747	0.022	PANYU	3	2	2	2	3	4	4
750	0.0309	PANYU	4	3	3	4	4	6	4
415	0.0044	SANDIEGOZ	3	4	4	4	4	1	6
749	0.025	SANDIEGOZ	3	3	3	2	2	6	4
357	0.0024	SHANGHAI	4	4	4	4	4	1	6
492	0.0307	SHANGHAI	4	3	3	4	4	6	4
583	0.0362	SHANGHAI	4	4	4	4	4	6	4
745	0.0258	SHANGHAI	3	3	3	2	2	6	4
746	0.0258	SHANGHAI	3	3	3	2	2	6	4
752	0.0129	SHANGHAI	1	2	2	4	4	4	4
588	0.0316	TAIPEI	4	3	3	4	4	6	4
659	0	TAIYUAN	4	4	4	6	6	1	6
589	0.0316	TIANJIN	4	3	3	4	4	6	4
721	0.03	TIANMUHU	4	3	3	4	4	6	4
612	0.0362	TOKYOUENO	4	4	4	4	4	6	4
526	0.019	VIENNA	1	2	2	3	3	4	4
789	0.0272	VIENNA	3	3	3	2	4	6	4
390	0.0243	WAKAYAMA	3	3	3	2	2	6	4
738	0.0305	WAKAYAMA	4	3	3	4	4	6	5
782	0.0305	WAKAYAMA	4	3	3	4	4	6	5
713	0.02	WEIFANG	2	6	6	6	6	4	4
715	0.0257	WEIFANG	3	-	-	-	-	6	4
633	0.0323	WENLING S	4	4	4	4	4	6	4
636	0.0303	WENLING S	4	3	3	4	4	6	4
639	0.0297	WENLING S	4	3	3	4	4	6	4
530	0.0327	WENZHOU	4	4	4	-	6	6	5
670	0.0368	WENZHOU	-	4	4	4	4	6	5
777	0.0122	WOLONG	1	2	2	4	4	4	6
807	0.0222	WOLONG	3	2	2	2	3	4	4
809	0.028	WOLONG	3	3	3	4	4	6	4
607	0.026	WUHAN	3	3	3	2	2	6	4
619	0.0316	WUHAN	4	3	3	4	4	6	4
630	0.043	WUXI	6	4	4	4	4	6	-
646	0.0347	WUXI	4	4	4	4	4	6	5
668	0.0257	XIUNING	3	3	3	2	2	6	4
599	0.0323	XIXIAKOU	4	4	4	4	4	6	5
605	0.0433	XIXIAKOU	6	4	4	4	4	6	5
413	0.0303	YAAN BC	4	3	3	4	4	6	4
424	0.0327	YAAN BC	4	4	4	4	4	6	4
467	0.0305	YAAN BC	4	4	4	4	6	6	5
488	0.0225	YAAN BC	3	2	2	2	2	74	4
502	0.017	YAAN BC	1	2	2	3	3	4	4

Males ⇩	MK⇩	Location	725 0.0161 CHENPANDA	761 0.0195 CHENPANDA	762 0.0195 CHENPANDA	763 0.0258 CHENPANDA	764 0.0264 CHENPANDA	765 0 CHENPANDA	779 0.0367 CHENPANDA
		Females ⇨ MK⇨							
503	0.0208	YAAN BC	3	2	2	3	3	4	4
542	0	YAAN BC	4	4	4	6	6	1	6
563	0.0252	YAAN BC	3	3	3	2	2	6	4
564	0.0314	YAAN BC	4	3	3	4	4	6	4
579	0.0009	YAAN BC	4	4	4	6	6	1	6
582	0.0202	YAAN BC	3	2	2	3	3	4	4
586	0.0255	YAAN BC	3	3	3	2	2	6	4
594	0	YAAN BC	4	4	4	6	6	1	6
595	0.0255	YAAN BC	3	3	3	2	2	6	4
621	0.0005	YAAN BC	4	4	4	6	6	1	6
623	0.0051	YAAN BC	3	4	4	4	4	1	6
661	0	YAAN BC	4	4	4	6	6	1	6
674	0.0108	YAAN BC	2	3	3	4	4	2	6
685	0.0272	YAAN BC	3	3	3	2	4	6	4
690	0.0199	YAAN BC	2	2	2	3	3	4	4
719	0.0182	YAAN BC	1	2	2	3	3	4	4
743	0.0131	YAAN BC	1	2	2	4	4	4	4
748	0.0137	YAAN BC	1	2	2	3	4	4	4
756	0.0203	YAAN BC	3	2	2	3	3	4	4
758	0.0217	YAAN BC	3	2	2	2	3	4	4
768	0.0336	YAAN BC	4	4	4	4	4	6	4
772	0.0222	YAAN BC	3	2	2	2	3	4	4
773	0.0356	YAAN BC	4	4	4	4	4	6	4
775	0.0104	YAAN BC	2	3	3	4	4	2	6
778	0.0267	YAAN BC	3	3	3	2	2	6	4
786	0.0294	YAAN BC	4	3	3	4	4	6	4
790	0.0311	YAAN BC	4	3	3	4	4	6	4
798	0.0178	YAAN BC	1	2	2	3	3	4	4
688	0.038	YANTAI	4	4	4	4	4	6	4

Males ⇩	MK⇩	Location	796 0.0277 CHENPANDA	811 0.0247 CHENPANDA	813 0.0306 CHENPANDA	814 0.043 CHENPANDA	818 0.0373 CHENPANDA	819 0.0373 CHENPANDA	820 0.0287 CHENPANDA
		Females ⇨ MK⇨							
327	0.0014	ABERDE HK	6	4	6	6	6	6	6
606	0.0186	ABERDE HK	4	3	4	6	4	4	4
620	0.026	ADELAIDE	4	2	4	-	4	4	4
627	0.0423	ANJI BAMB	4	4	4	-	6	6	4
629	0.043	ANJI BAMB	4	4	4	-	6	6	4
666	0.0363	ANJI BAMB	4	4	4	-	5	5	4
461	0.018	ATLANTA	-	4	4	6	4	4	4
731	0.0195	ATLANTA	4	4	4	4	4	4	4
801	0.0195	ATLANTA	4	4	4	4	4	4	4
394	0.0482	BEIJING	4	4	5	5	5	5	4
496	0.0369	BEIJING	4	4	4	5	4	4	4
454	0.0321	CHENGDU	4	4	6	5	-	-	6
536	0.0287	CHENGDU	4	4	4	5	5	5	4
342	0.006	CHENPANDA	4	4	6	6	6	6	4
386	0.0202	CHENPANDA	4	6	4	4	4	4	3
455	0.0474	CHENPANDA	4	4	4	-	-	-	4
529	0.0327	CHENPANDA	-	4	-	5	6	6	-
540	0.0285	CHENPANDA	4	-	4	5	-	-	4
573	0.0274	CHENPANDA	4	6	4	5	4	4	4
574	0.0283	CHENPANDA	6	-	-	5	4	4	4
575	0.0325	CHENPANDA	4	4	6	5	-	-	6
584	0.0221	CHENPANDA	-	2	-	4	4	4	-
614	0.0274	CHENPANDA	4	6	4	5	4	4	4
644	0.0418	CHENPANDA	4	4	4	-	-	-	4
649	0.0195	CHENPANDA	4	4	4	4	4	4	4
662	0.0274	CHENPANDA	4	6	4	5	4	4	4
711	0.0154	CHENPANDA	4	4	4	6	4	4	4
717	0.0363	CHENPANDA	4	4	4	-	5	5	4
718	0.0363	CHENPANDA	4	4	4	-	5	5	4
724	0.0161	CHENPANDA	4	4	4	6	4	4	4
726	0.0229	CHENPANDA	-	4	6	4	4	4	6
727	0.0418	CHENPANDA	4	4	4	-	-	-	4
732	0.032	CHENPANDA	6	6	-	5	6	6	4
736	0.0182	CHENPANDA	4	4	4	6	4	4	4
769	0.0272	CHENPANDA	4	4	4	4	4	4	4
770	0.0236	CHENPANDA	4	4	4	4	4	4	4
780	0.0367	CHENPANDA	4	4	5	-	5	5	6
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	4	-	6	6	4
825	0.0254	CHENPANDA	4	4	4	4	4	4	4
510	0.0218	CHIANGMAI	3	2	3	6	4	4	3
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	4	4	4	4	6
676	0.0343	CHONGQING	4	4	4	4	4	4	6
525	0.0311	FUCHOW	4	4	4	4	4	4	4
532	0.0282	FUCHOW	4	2	4	4	4	4	4
538	0.036	FUCHOW	4	4	4	5	4	4	4
518	0.0307	GUANGZH Z	4	4	4	4	4	4	4
689	0.0199	GUANGZH Z	3	3	3	4	4	4	3
628	0.0423	GUIZHOU W	4	4	4	-	6	6	4
515	0.032	HEFEI W	4	4	6	5	-	-	6
592	0.0269	LANCHOW	4	4	4	5	4	4	4
714	0.0228	LIUGONGDA	3	2	4	5	4	4	3
377	0.0158	LOUGUANTA	4	3	4	6	4	4	6
460	0.0397	LOUGUANTA	4	4	4	5	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	4	4	3
624	0	LOUGUANTA	96	6	6	6	6	6	6
697	0.0012	LOUGUANTA	6	4	6	6	6	6	6

Males ⇩	MK⇩	Location	796 0.0277 CHENPANDA	811 0.0247 CHENPANDA	813 0.0306 CHENPANDA	814 0.043 CHENPANDA	818 0.0373 CHENPANDA	819 0.0373 CHENPANDA	820 0.0287 CHENPANDA
703	0	LOUGUANTA	6	6	6	6	6	6	6
753	0.0079	LOUGUANTA	4	4	4	6	6	6	4
802	0	LOUGUANTA	6	6	6	6	6	6	6
803	0	LOUGUANTA	6	6	6	6	6	6	6
520	0.0258	LUOYANG	4	2	4	5	4	4	4
519	0.0264	MADRID Z	4	2	4	5	4	4	4
792	0.0242	MADRID Z	4	4	4	4	4	4	4
793	0.0242	MADRID Z	4	4	4	4	4	4	4
466	0.0202	MEMPHIS	4	3	4	4	4	4	4
399	0.0427	NANCHANG	4	4	4	5	5	5	4
707	0.0356	NINGBO	4	4	4	5	4	4	4
708	0.0356	NINGBO	4	4	4	5	4	4	4
458	0.0348	NZP-WASH	4	4	4	4	4	4	4
609	0.0172	PANYU	3	3	4	6	4	4	3
613	0.0226	PANYU	4	2	4	4	4	4	4
742	0.0284	PANYU	4	2	4	4	4	4	4
744	0.0264	PANYU	4	2	4	4	4	4	4
747	0.022	PANYU	3	2	3	4	4	4	3
750	0.0309	PANYU	4	4	4	4	4	4	4
415	0.0044	SANDIEGOZ	4	4	6	6	6	6	6
749	0.025	SANDIEGOZ	2	2	4	4	4	4	4
357	0.0024	SHANGHAI	6	4	6	6	6	6	6
492	0.0307	SHANGHAI	4	4	4	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	5	4	4	4
745	0.0258	SHANGHAI	4	2	4	4	4	4	4
746	0.0258	SHANGHAI	4	2	4	4	4	4	4
752	0.0129	SHANGHAI	4	4	4	6	6	6	4
588	0.0316	TAIPEI	4	4	4	4	4	4	4
659	0	TAIYUAN	6	6	6	6	6	6	6
589	0.0316	TIANJIN	4	4	4	4	4	4	4
721	0.03	TIANMUHU	4	4	4	4	4	4	4
612	0.0362	TOKYOUENO	4	4	4	5	4	4	4
526	0.019	VIENNA	3	3	3	4	4	4	3
789	0.0272	VIENNA	4	2	4	4	4	4	4
390	0.0243	WAKAYAMA	4	4	4	4	4	4	3
738	0.0305	WAKAYAMA	4	4	4	5	5	5	4
782	0.0305	WAKAYAMA	4	4	4	5	5	5	4
713	0.02	WEIFANG	4	3	4	4	4	4	4
715	0.0257	WEIFANG	6	4	6	4	4	4	6
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	4	4	4	4	4	4
639	0.0297	WENLING S	4	4	4	4	4	4	4
530	0.0327	WENZHOU	-	4	-	5	6	6	-
670	0.0368	WENZHOU	4	4	4	-	5	5	4
777	0.0122	WOLONG	4	4	4	6	6	6	4
807	0.0222	WOLONG	3	2	3	4	4	4	3
809	0.028	WOLONG	4	2	4	4	4	4	4
607	0.026	WUHAN	4	2	4	4	4	4	4
619	0.0316	WUHAN	4	4	4	4	4	4	4
630	0.043	WUXI	4	4	4	-	6	6	4
646	0.0347	WUXI	4	4	4	-	5	5	4
668	0.0257	XIUNING	4	2	4	4	4	4	4
599	0.0323	XIXIAKOU	4	4	4	-	5	5	4
605	0.0433	XIXIAKOU	4	4	4	-	5	5	4
413	0.0303	YAAN BC	4	4	4	4	4	4	4
424	0.0327	YAAN BC	4	4	4	4	4	4	4
467	0.0305	YAAN BC	4	4	4	5	6	6	4
488	0.0225	YAAN BC	4	4	4	4	4	4	3
502	0.017	YAAN BC	3	3	4	6	4	4	3

Males ⇩	MK⇩	Location	Females ⇨ MK⇨ 	796 0.0277 CHENPANDA	811 0.0247 CHENPANDA	813 0.0306 CHENPANDA	814 0.043 CHENPANDA	818 0.0373 CHENPANDA	819 0.0373 CHENPANDA	820 0.0287 CHENPANDA
503	0.0208	YAAN BC		3	2	3	4	4	4	3
542	0	YAAN BC		6	6	6	6	6	6	6
563	0.0252	YAAN BC		2	2	4	4	4	4	4
564	0.0314	YAAN BC		4	4	4	4	4	4	4
579	0.0009	YAAN BC		6	4	6	6	6	6	6
582	0.0202	YAAN BC		3	3	3	4	4	4	3
586	0.0255	YAAN BC		4	2	4	4	4	4	4
594	0	YAAN BC		6	6	6	6	6	6	6
595	0.0255	YAAN BC		4	2	4	4	4	4	4
621	0.0005	YAAN BC		6	6	6	6	6	6	6
623	0.0051	YAAN BC		4	4	6	6	6	6	4
661	0	YAAN BC		6	6	6	6	6	6	6
674	0.0108	YAAN BC		4	4	4	6	6	6	4
685	0.0272	YAAN BC		4	2	4	4	4	4	4
690	0.0199	YAAN BC		3	3	3	4	4	4	3
719	0.0182	YAAN BC		4	3	4	6	4	4	4
743	0.0131	YAAN BC		4	3	4	6	4	4	4
748	0.0137	YAAN BC		4	4	4	6	4	4	4
756	0.0203	YAAN BC		3	3	3	4	4	4	3
758	0.0217	YAAN BC		3	2	3	4	4	4	3
768	0.0336	YAAN BC		4	4	4	4	4	4	4
772	0.0222	YAAN BC		3	2	3	4	4	4	3
773	0.0356	YAAN BC		4	4	4	5	4	4	4
775	0.0104	YAAN BC		4	4	4	6	6	6	4
778	0.0267	YAAN BC		4	4	4	4	4	4	4
786	0.0294	YAAN BC		4	4	4	4	4	4	4
790	0.0311	YAAN BC		4	4	4	4	4	4	4
798	0.0178	YAAN BC		3	3	4	6	4	4	3
688	0.038	YANTAI		4	4	4	5	4	4	4

Males ⇩	MK⇩	Females ⇒ MK⇒ Location	821 0.0358 CHENPANDA	822 0.0358 CHENPANDA	823 0.0231 CHENPANDA	824 0.0254 CHENPANDA	539 0.0365 CHIANGMAI	740 0.03 CHIANGMAI	385 0.0202 CHONGQING
327	0.0014	ABERDE HK	6	6	4	4	6	6	4
606	0.0186	ABERDE HK	4	4	3	3	4	3	-
620	0.026	ADELAIDE	6	6	2	2	4	4	3
627	0.0423	ANJI BAMB	-	-	4	4	5	5	4
629	0.043	ANJI BAMB	-	-	4	4	5	5	4
666	0.0363	ANJI BAMB	6	6	4	4	4	5	-
461	0.018	ATLANTA	4	4	4	4	4	3	2
731	0.0195	ATLANTA	4	4	4	4	4	3	2
801	0.0195	ATLANTA	4	4	4	4	4	3	2
394	0.0482	BEIJING	5	5	6	4	6	5	6
496	0.0369	BEIJING	4	4	4	4	-	6	4
454	0.0321	CHENGDU	4	4	4	4	4	4	3
536	0.0287	CHENGDU	4	4	3	4	4	4	3
342	0.006	CHENPANDA	6	6	-	4	6	4	4
386	0.0202	CHENPANDA	-	-	-	-	4	3	2
455	0.0474	CHENPANDA	-	-	6	4	5	6	6
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	4	4	4	4	3
573	0.0274	CHENPANDA	4	4	4	4	4	4	3
574	0.0283	CHENPANDA	4	4	-	4	4	4	3
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	4	4	2	4	4	3	-
614	0.0274	CHENPANDA	4	4	4	4	4	4	3
644	0.0418	CHENPANDA	-	-	4	4	4	5	4
649	0.0195	CHENPANDA	4	4	4	4	4	3	2
662	0.0274	CHENPANDA	4	4	4	4	4	4	3
711	0.0154	CHENPANDA	-	-	6	4	4	4	3
717	0.0363	CHENPANDA	6	6	4	4	4	5	-
718	0.0363	CHENPANDA	6	6	4	4	4	5	-
724	0.0161	CHENPANDA	4	4	6	-	4	4	3
726	0.0229	CHENPANDA	4	4	4	4	4	3	2
727	0.0418	CHENPANDA	-	-	4	4	4	5	4
732	0.032	CHENPANDA	4	4	4	4	4	4	3
736	0.0182	CHENPANDA	4	4	4	4	4	3	2
769	0.0272	CHENPANDA	4	4	4	4	4	4	3
770	0.0236	CHENPANDA	4	4	-	4	4	4	2
780	0.0367	CHENPANDA	5	5	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	-	-	4	4	5	5	4
825	0.0254	CHENPANDA	4	4	4	-	4	4	4
510	0.0218	CHIANGMAI	6	6	2	2	4	-	2
513	0.0326	CHONGQING	4	4	4	4	5	4	4
648	0.0343	CHONGQING	4	4	4	4	4	4	-
676	0.0343	CHONGQING	4	4	4	4	4	4	-
525	0.0311	FUCHOW	4	4	4	4	5	4	3
532	0.0282	FUCHOW	4	4	3	4	4	4	3
538	0.036	FUCHOW	4	4	4	4	-	6	4
518	0.0307	GUANGZH Z	4	4	4	4	5	4	3
689	0.0199	GUANGZH Z	4	4	2	3	4	4	2
628	0.0423	GUIZHOU W	-	-	4	4	5	5	4
515	0.032	HEFEI W	4	4	4	4	4	4	3
592	0.0269	LANCHOW	4	4	4	4	4	4	3
714	0.0228	LIUGONGDA	4	4	2	2	4	4	2
377	0.0158	LOUGUANTA	4	4	3	4	4	4	3
460	0.0397	LOUGUANTA	4	4	4	4	6	5	4
553	0.0238	LOUGUANTA	4	4	4	4	4	4	2
624	0	LOUGUANTA	6	6	4	6	6	6	34
697	0.0012	LOUGUANTA	6	6	4	4	6	6	4

Males ⇩	MK⇩	Location	821 0.0358 CHENPANDA	822 0.0358 CHENPANDA	823 0.0231 CHENPANDA	824 0.0254 CHENPANDA	539 0.0365 CHIANGMAI	740 0.03 CHIANGMAI	385 0.0202 CHONGQING
703	0	LOUGUANTA	6	6	4	6	6	6	4
753	0.0079	LOUGUANTA	6	6	4	4	6	4	4
802	0	LOUGUANTA	6	6	4	6	6	6	4
803	0	LOUGUANTA	6	6	4	6	6	6	4
520	0.0258	LUOYANG	4	4	2	4	4	4	3
519	0.0264	MADRID Z	4	4	2	4	4	4	3
792	0.0242	MADRID Z	4	4	4	4	4	4	2
793	0.0242	MADRID Z	4	4	4	4	4	4	2
466	0.0202	MEMPHIS	4	4	2	4	4	3	-
399	0.0427	NANCHANG	5	5	4	4	6	5	4
707	0.0356	NINGBO	4	4	4	4	5	4	-
708	0.0356	NINGBO	4	4	4	4	5	4	-
458	0.0348	NZP-WASH	4	4	4	4	6	4	4
609	0.0172	PANYU	4	4	3	3	4	4	2
613	0.0226	PANYU	4	4	2	2	4	3	-
742	0.0284	PANYU	4	4	3	4	6	4	3
744	0.0264	PANYU	4	4	2	2	4	4	3
747	0.022	PANYU	4	4	2	2	4	3	2
750	0.0309	PANYU	4	4	4	4	5	4	3
415	0.0044	SANDIEGOZ	6	6	4	4	6	6	4
749	0.025	SANDIEGOZ	4	4	2	2	4	4	3
357	0.0024	SHANGHAI	6	6	4	4	6	6	4
492	0.0307	SHANGHAI	4	4	4	4	6	4	3
583	0.0362	SHANGHAI	4	4	4	4	6	4	-
745	0.0258	SHANGHAI	4	4	2	2	4	4	3
746	0.0258	SHANGHAI	4	4	2	2	4	4	3
752	0.0129	SHANGHAI	4	4	4	4	4	4	2
588	0.0316	TAIPEI	4	4	4	4	4	4	-
659	0	TAIYUAN	6	6	4	6	6	6	4
589	0.0316	TIANJIN	4	4	4	4	4	4	-
721	0.03	TIANMUHU	4	4	3	4	5	4	3
612	0.0362	TOKYOUENO	4	4	4	4	6	4	-
526	0.019	VIENNA	4	4	3	3	-	-	2
789	0.0272	VIENNA	4	4	3	2	6	4	3
390	0.0243	WAKAYAMA	4	4	4	4	4	4	2
738	0.0305	WAKAYAMA	4	4	4	4	4	4	3
782	0.0305	WAKAYAMA	4	4	4	4	4	4	3
713	0.02	WEIFANG	4	4	2	4	4	4	2
715	0.0257	WEIFANG	4	4	4	4	4	4	3
633	0.0323	WENLING S	4	4	4	4	4	4	-
636	0.0303	WENLING S	4	4	4	4	6	4	3
639	0.0297	WENLING S	4	4	3	4	5	4	3
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	-	-	4	-	4	5	4
777	0.0122	WOLONG	4	4	3	4	6	4	2
807	0.0222	WOLONG	4	4	2	2	4	4	2
809	0.028	WOLONG	4	4	3	4	4	4	3
607	0.026	WUHAN	4	4	2	2	4	4	3
619	0.0316	WUHAN	4	4	4	4	4	4	-
630	0.043	WUXI	-	-	4	4	5	5	4
646	0.0347	WUXI	6	6	4	4	4	4	4
668	0.0257	XIUNING	4	4	2	2	4	4	3
599	0.0323	XIXIAKOU	6	6	4	4	4	4	3
605	0.0433	XIXIAKOU	-	-	4	4	6	6	4
413	0.0303	YAAN BC	4	4	4	4	6	4	3
424	0.0327	YAAN BC	4	4	4	4	4	4	-
467	0.0305	YAAN BC	5	5	4	4	4	4	3
488	0.0225	YAAN BC	4	4	4	4	4	3	2
502	0.017	YAAN BC	4	4	3	3	4	4	2

Males ⇓	MK⇓	Location	821 0.0358 CHENPANDA	822 0.0358 CHENPANDA	823 0.0231 CHENPANDA	824 0.0254 CHENPANDA	539 0.0365 CHIANGMAI	740 0.03 CHIANGMAI	385 0.0202 CHONGQING
503	0.0208	YAAN BC	4	4	2	3	4	3	2
542	0	YAAN BC	6	6	4	6	6	6	4
563	0.0252	YAAN BC	4	4	2	2	4	4	3
564	0.0314	YAAN BC	4	4	4	4	6	4	3
579	0.0009	YAAN BC	6	6	4	6	6	6	4
582	0.0202	YAAN BC	4	4	2	3	4	4	2
586	0.0255	YAAN BC	4	4	2	2	4	4	3
594	0	YAAN BC	6	6	4	6	6	6	4
595	0.0255	YAAN BC	4	4	2	2	4	4	3
621	0.0005	YAAN BC	6	6	4	6	6	6	4
623	0.0051	YAAN BC	6	6	4	4	6	6	4
661	0	YAAN BC	6	6	4	6	6	6	4
674	0.0108	YAAN BC	6	6	4	4	6	4	3
685	0.0272	YAAN BC	4	4	3	2	6	4	3
690	0.0199	YAAN BC	4	4	2	3	4	4	2
719	0.0182	YAAN BC	4	4	3	3	4	3	-
743	0.0131	YAAN BC	4	4	3	4	4	4	2
748	0.0137	YAAN BC	4	4	4	4	4	4	2
756	0.0203	YAAN BC	4	4	2	3	4	3	2
758	0.0217	YAAN BC	4	4	2	2	4	4	2
768	0.0336	YAAN BC	4	4	4	4	4	4	-
772	0.0222	YAAN BC	4	4	2	2	6	4	2
773	0.0356	YAAN BC	4	4	4	4	5	4	-
775	0.0104	YAAN BC	6	6	4	4	6	4	3
778	0.0267	YAAN BC	4	4	4	4	4	4	3
786	0.0294	YAAN BC	4	4	4	4	4	4	3
790	0.0311	YAAN BC	4	4	4	4	6	4	3
798	0.0178	YAAN BC	4	4	3	3	4	4	2
688	0.038	YANTAI	5	5	4	4	6	5	4

Males ⇓	MK⇓	Location	493	548	512	632	641	434	682
		Females ⇒							
		MK⇒	0.0341	0.0339	0.0207	0.0299	0.0281	0.0135	0.0362
		Location	CHONGQING	CHONGQING	FUYANG EP	GUILIN	GUILIN	KOBE PARK	LIUGONGDA
327	0.0014	ABERDE HK	6	6	4	6	6	2	6
606	0.0186	ABERDE HK	4	4	2	3	3	2	-
620	0.026	ADELAIDE	4	4	4	4	4	4	4
627	0.0423	ANJI BAMB	5	4	4	4	4	6	4
629	0.043	ANJI BAMB	5	4	4	4	4	6	5
666	0.0363	ANJI BAMB	4	4	4	4	4	4	5
461	0.018	ATLANTA	-	4	2	3	3	-	4
731	0.0195	ATLANTA	4	4	2	3	3	4	4
801	0.0195	ATLANTA	4	4	2	3	3	4	4
394	0.0482	BEIJING	5	-	6	5	5	-	-
496	0.0369	BEIJING	4	6	4	5	4	4	6
454	0.0321	CHENGDU	-	4	3	4	4	4	4
536	0.0287	CHENGDU	-	4	3	4	4	4	4
342	0.006	CHENPANDA	6	6	4	4	4	2	6
386	0.0202	CHENPANDA	4	4	2	3	3	2	4
455	0.0474	CHENPANDA	5	5	6	4	4	6	5
529	0.0327	CHENPANDA	-	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	3	4	4	4	4
573	0.0274	CHENPANDA	4	4	3	4	4	4	4
574	0.0283	CHENPANDA	4	4	3	4	4	4	4
575	0.0325	CHENPANDA	-	4	4	4	4	4	4
584	0.0221	CHENPANDA	4	4	2	3	3	3	4
614	0.0274	CHENPANDA	4	4	3	4	4	4	4
644	0.0418	CHENPANDA	6	4	4	4	4	6	4
649	0.0195	CHENPANDA	4	4	2	3	3	4	4
662	0.0274	CHENPANDA	4	4	3	4	4	4	4
711	0.0154	CHENPANDA	4	4	3	4	4	1	4
717	0.0363	CHENPANDA	4	4	4	4	4	4	5
718	0.0363	CHENPANDA	4	4	4	4	4	4	5
724	0.0161	CHENPANDA	4	4	3	4	3	1	4
726	0.0229	CHENPANDA	-	4	2	3	3	3	4
727	0.0418	CHENPANDA	6	4	4	4	4	6	4
732	0.032	CHENPANDA	-	4	3	4	4	4	4
736	0.0182	CHENPANDA	4	4	2	3	3	2	4
769	0.0272	CHENPANDA	6	4	3	4	4	4	4
770	0.0236	CHENPANDA	6	4	2	4	3	3	4
780	0.0367	CHENPANDA	5	4	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	5	4	4	4	4	6	5
825	0.0254	CHENPANDA	4	4	3	4	4	3	4
510	0.0218	CHIANGMAI	4	4	2	3	3	3	4
513	0.0326	CHONGQING	4	-	4	4	4	4	5
648	0.0343	CHONGQING	-	4	4	4	4	4	-
676	0.0343	CHONGQING	-	4	4	4	4	4	-
525	0.0311	FUCHOW	4	6	6	6	6	4	5
532	0.0282	FUCHOW	4	6	4	4	4	4	4
538	0.036	FUCHOW	4	6	4	5	4	4	6
518	0.0307	GUANGZH Z	4	6	4	4	4	4	5
689	0.0199	GUANGZH Z	4	4	2	3	-	2	4
628	0.0423	GUIZHOU W	5	4	4	4	4	6	4
515	0.032	HEFEI W	-	4	3	4	4	4	4
592	0.0269	LANCHOW	4	4	3	4	4	4	4
714	0.0228	LIUGONGDA	4	4	2	-	3	3	4
377	0.0158	LOUGUANTA	4	4	3	4	4	1	4
460	0.0397	LOUGUANTA	4	6	4	5	5	-	5
553	0.0238	LOUGUANTA	4	4	2	4	3	3	4
624	0	LOUGUANTA	493	56	4	6	6	4	6
697	0.0012	LOUGUANTA	6	6	4	6	6	4	6

Males ⇩	MK⇩	Females ⇨ MK⇨ Location	493 0.0341 CHONGQING	548 0.0339 CHONGQING	512 0.0207 FUYANG EP	632 0.0299 GUILIN	641 0.0281 GUILIN	434 0.0135 KOBE PARK	682 0.0362 LIUGONGDA
703	0	LOUGUANTA	6	6	4	6	6	4	6
753	0.0079	LOUGUANTA	6	6	4	4	4	2	6
802	0	LOUGUANTA	6	6	4	6	6	4	6
803	0	LOUGUANTA	6	6	4	6	6	4	6
520	0.0258	LUOYANG	-	4	3	4	4	4	4
519	0.0264	MADRID Z	-	4	3	4	4	4	4
792	0.0242	MADRID Z	4	4	2	4	2	3	4
793	0.0242	MADRID Z	4	4	2	4	2	3	4
466	0.0202	MEMPHIS	4	4	2	3	3	2	-
399	0.0427	NANCHANG	4	6	4	5	5	-	5
707	0.0356	NINGBO	4	4	4	4	4	4	-
708	0.0356	NINGBO	4	4	4	4	4	4	-
458	0.0348	NZP-WASH	4	6	-	-	-	4	4
609	0.0172	PANYU	4	4	4	4	4	4	4
613	0.0226	PANYU	4	4	2	3	3	3	-
742	0.0284	PANYU	4	4	4	4	-	4	-
744	0.0264	PANYU	4	4	4	-	4	4	4
747	0.022	PANYU	4	4	2	-	3	3	4
750	0.0309	PANYU	4	4	4	4	4	4	4
415	0.0044	SANDIEGOZ	6	6	4	6	4	3	6
749	0.025	SANDIEGOZ	4	4	4	4	4	4	4
357	0.0024	SHANGHAI	6	6	4	6	6	2	6
492	0.0307	SHANGHAI	4	6	4	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	4	4	4	-
745	0.0258	SHANGHAI	4	4	4	-	4	4	4
746	0.0258	SHANGHAI	4	4	4	-	4	4	4
752	0.0129	SHANGHAI	4	4	2	4	4	2	4
588	0.0316	TAIPEI	4	4	4	4	4	4	-
659	0	TAIYUAN	6	6	4	6	6	4	6
589	0.0316	TIANJIN	4	4	4	4	4	4	-
721	0.03	TIANMUHU	4	4	-	-	-	4	4
612	0.0362	TOKYOUENO	4	4	4	4	4	4	-
526	0.019	VIENNA	4	4	2	3	3	2	4
789	0.0272	VIENNA	4	6	4	4	4	4	4
390	0.0243	WAKAYAMA	4	4	2	4	2	3	4
738	0.0305	WAKAYAMA	4	4	3	4	4	4	4
782	0.0305	WAKAYAMA	4	4	3	4	4	4	4
713	0.02	WEIFANG	4	4	2	3	3	2	4
715	0.0257	WEIFANG	-	4	3	4	4	3	4
633	0.0323	WENLING S	4	4	4	4	4	4	-
636	0.0303	WENLING S	4	4	4	-	4	4	-
639	0.0297	WENLING S	4	4	4	-	4	4	4
530	0.0327	WENZHOU	-	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	4	4	4	4	4
777	0.0122	WOLONG	4	4	3	-	4	1	4
807	0.0222	WOLONG	4	4	4	4	-	4	4
809	0.028	WOLONG	4	4	4	-	-	4	4
607	0.026	WUHAN	4	4	4	4	4	4	4
619	0.0316	WUHAN	4	4	4	4	4	4	-
630	0.043	WUXI	5	4	4	4	4	6	5
646	0.0347	WUXI	4	4	4	4	4	4	4
668	0.0257	XIUNING	4	4	4	-	4	4	4
599	0.0323	XIXIAKOU	4	-	4	4	4	4	4
605	0.0433	XIXIAKOU	4	5	-	5	-	6	5
413	0.0303	YAAN BC	4	6	4	4	4	4	4
424	0.0327	YAAN BC	4	4	4	4	4	4	-
467	0.0305	YAAN BC	-	4	3	4	4	4	4
488	0.0225	YAAN BC	4	54	2	3	3	3	4
502	0.017	YAAN BC	4	4	2	4	-	1	4

Males ⇩	MK⇩	Location	493 0.0341 CHONGQING	548 0.0339 CHONGQING	512 0.0207 FUYANG EP	632 0.0299 GUILIN	641 0.0281 GUILIN	434 0.0135 KOBE PARK	682 0.0362 LIUGONGDA
503	0.0208	YAAN BC	4	4	2	-	3	2	4
542	0	YAAN BC	6	6	4	6	6	4	6
563	0.0252	YAAN BC	4	4	4	4	4	4	4
564	0.0314	YAAN BC	4	6	4	4	4	4	4
579	0.0009	YAAN BC	6	6	4	6	6	4	6
582	0.0202	YAAN BC	4	4	4	-	4	2	4
586	0.0255	YAAN BC	4	4	4	4	4	4	4
594	0	YAAN BC	6	6	4	6	6	4	6
595	0.0255	YAAN BC	4	4	4	4	4	3	4
621	0.0005	YAAN BC	6	6	4	6	6	4	6
623	0.0051	YAAN BC	6	6	4	6	4	3	6
661	0	YAAN BC	6	6	4	6	6	4	6
674	0.0108	YAAN BC	4	4	3	4	-	1	6
685	0.0272	YAAN BC	4	6	4	4	4	4	4
690	0.0199	YAAN BC	4	4	2	3	-	2	4
719	0.0182	YAAN BC	4	4	2	3	3	2	-
743	0.0131	YAAN BC	4	4	2	4	4	1	4
748	0.0137	YAAN BC	4	4	2	4	4	1	4
756	0.0203	YAAN BC	4	-	2	4	3	4	4
758	0.0217	YAAN BC	4	4	2	-	3	3	4
768	0.0336	YAAN BC	4	4	4	4	4	4	-
772	0.0222	YAAN BC	4	4	4	4	4	4	4
773	0.0356	YAAN BC	4	4	4	4	4	4	-
775	0.0104	YAAN BC	4	4	3	4	6	1	6
778	0.0267	YAAN BC	4	4	4	4	4	4	4
786	0.0294	YAAN BC	4	6	4	4	4	4	4
790	0.0311	YAAN BC	4	4	4	4	4	4	-
798	0.0178	YAAN BC	4	4	4	4	4	4	4
688	0.038	YANTAI	4	6	4	4	4	6	4

| Males ⇩ | MK⇩ | Females ⇨ | 509 | 562 | 603 | 660 | 699 | 700 | 754 |
| | | MK⇨ | 0.0222 | 0.0123 | 0.0233 | 0 | 0 | 0 | 0.0079 |
		Location	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA
327	0.0014	ABERDE HK	4	2	4	1	1	1	1
606	0.0186	ABERDE HK	2	2	3	4	4	4	3
620	0.026	ADELAIDE	6	4	4	6	6	6	4
627	0.0423	ANJI BAMB	6	6	4	6	6	6	6
629	0.043	ANJI BAMB	6	6	4	6	6	6	6
666	0.0363	ANJI BAMB	6	4	4	6	6	6	6
461	0.018	ATLANTA	3	2	3	4	4	4	3
731	0.0195	ATLANTA	2	2	2	4	4	4	3
801	0.0195	ATLANTA	2	2	2	4	4	4	3
394	0.0482	BEIJING	6	6	-	6	6	6	6
496	0.0369	BEIJING	4	6	4	6	6	6	6
454	0.0321	CHENGDU	4	4	4	6	6	6	4
536	0.0287	CHENGDU	3	4	3	6	6	6	4
342	0.006	CHENPANDA	4	2	4	1	1	1	1
386	0.0202	CHENPANDA	2	2	2	4	4	4	4
455	0.0474	CHENPANDA	-	6	4	6	6	6	6
529	0.0327	CHENPANDA	4	4	4	6	6	6	6
540	0.0285	CHENPANDA	3	4	3	6	6	6	4
573	0.0274	CHENPANDA	3	4	3	6	6	6	4
574	0.0283	CHENPANDA	3	4	3	6	6	6	4
575	0.0325	CHENPANDA	4	4	4	6	6	6	6
584	0.0221	CHENPANDA	2	-	2	4	4	4	4
614	0.0274	CHENPANDA	3	4	3	6	6	6	4
644	0.0418	CHENPANDA	6	6	4	6	6	6	6
649	0.0195	CHENPANDA	2	2	2	4	4	4	3
662	0.0274	CHENPANDA	3	4	3	6	6	6	4
711	0.0154	CHENPANDA	3	1	3	4	4	4	2
717	0.0363	CHENPANDA	6	4	4	6	6	6	6
718	0.0363	CHENPANDA	6	4	4	6	6	6	6
724	0.0161	CHENPANDA	3	1	3	4	4	4	3
726	0.0229	CHENPANDA	2	-	2	4	4	4	4
727	0.0418	CHENPANDA	6	6	4	6	6	6	6
732	0.032	CHENPANDA	4	4	4	6	6	6	4
736	0.0182	CHENPANDA	2	-	3	4	4	4	4
769	0.0272	CHENPANDA	3	4	2	6	6	6	4
770	0.0236	CHENPANDA	2	3	2	4	4	4	4
780	0.0367	CHENPANDA	4	6	4	6	6	6	6
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	6	4	6	6	6	6
825	0.0254	CHENPANDA	2	4	2	6	6	6	4
510	0.0218	CHIANGMAI	-	3	2	4	4	4	4
513	0.0326	CHONGQING	4	4	4	6	6	6	6
648	0.0343	CHONGQING	4	4	4	6	6	6	6
676	0.0343	CHONGQING	4	4	4	6	6	6	6
525	0.0311	FUCHOW	4	4	4	6	6	6	4
532	0.0282	FUCHOW	3	4	4	6	6	6	4
538	0.036	FUCHOW	4	4	4	6	6	6	6
518	0.0307	GUANGZH Z	4	4	4	6	6	6	4
689	0.0199	GUANGZH Z	4	2	2	4	4	4	3
628	0.0423	GUIZHOU W	6	6	4	6	6	6	6
515	0.032	HEFEI W	4	4	4	6	6	6	4
592	0.0269	LANCHOW	3	4	2	6	6	6	4
714	0.0228	LIUGONGDA	-	3	2	4	4	4	4
377	0.0158	LOUGUANTA	3	-	3	4	4	4	-
460	0.0397	LOUGUANTA	4	6	-	6	6	6	6
553	0.0238	LOUGUANTA	2	3	2	4	4	4	4
624	0	LOUGUANTA	4	54	4	1	1	1	1
697	0.0012	LOUGUANTA	4	2	4	1	1	1	-

Males ⇓	MK⇓	Location	509	562	603	660	699	700	754
		Females ⇒ MK⇒	0.0222	0.0123	0.0233	0	0	0	0.0079
			LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA
703	0	LOUGUANTA	4	4	4	1	1	1	1
753	0.0079	LOUGUANTA	4	-	4	1	1	1	-
802	0	LOUGUANTA	4	4	4	1	1	1	1
803	0	LOUGUANTA	4	4	4	1	1	1	1
520	0.0258	LUOYANG	2	4	2	6	6	6	4
519	0.0264	MADRID Z	3	4	2	6	6	6	4
792	0.0242	MADRID Z	2	4	2	6	6	6	4
793	0.0242	MADRID Z	2	4	2	6	6	6	4
466	0.0202	MEMPHIS	2	2	2	4	4	4	4
399	0.0427	NANCHANG	4	6	-	6	6	6	6
707	0.0356	NINGBO	4	4	4	6	6	6	6
708	0.0356	NINGBO	4	4	4	6	6	6	6
458	0.0348	NZP-WASH	4	4	4	6	6	6	6
609	0.0172	PANYU	3	2	4	4	4	4	3
613	0.0226	PANYU	2	3	2	4	4	4	4
742	0.0284	PANYU	3	4	4	6	6	6	4
744	0.0264	PANYU	3	4	4	6	6	6	4
747	0.022	PANYU	2	3	2	4	4	4	4
750	0.0309	PANYU	4	4	4	6	6	6	4
415	0.0044	SANDIEGOZ	4	1	4	1	1	1	1
749	0.025	SANDIEGOZ	2	4	4	6	6	6	4
357	0.0024	SHANGHAI	4	2	4	1	1	1	1
492	0.0307	SHANGHAI	3	-	-	6	6	6	4
583	0.0362	SHANGHAI	4	4	4	6	6	6	6
745	0.0258	SHANGHAI	2	4	4	6	6	6	4
746	0.0258	SHANGHAI	2	4	4	6	6	6	4
752	0.0129	SHANGHAI	3	1	3	4	4	4	2
588	0.0316	TAIPEI	4	4	4	6	6	6	4
659	0	TAIYUAN	4	4	4	1	1	1	1
589	0.0316	TIANJIN	4	4	4	6	6	6	4
721	0.03	TIANMUHU	3	4	4	6	6	6	4
612	0.0362	TOKYOUENO	4	4	4	6	6	6	6
526	0.019	VIENNA	-	2	3	4	4	4	3
789	0.0272	VIENNA	4	4	4	6	6	6	4
390	0.0243	WAKAYAMA	2	3	2	6	6	6	4
738	0.0305	WAKAYAMA	3	4	4	6	6	6	4
782	0.0305	WAKAYAMA	3	4	4	6	6	6	4
713	0.02	WEIFANG	-	6	2	4	4	4	4
715	0.0257	WEIFANG	2	6	2	6	6	6	4
633	0.0323	WENLING S	4	4	4	6	6	6	6
636	0.0303	WENLING S	3	4	4	6	6	6	4
639	0.0297	WENLING S	3	4	4	6	6	6	4
530	0.0327	WENZHOU	4	4	4	6	6	6	6
670	0.0368	WENZHOU	6	6	4	6	6	6	6
777	0.0122	WOLONG	3	1	3	4	4	4	2
807	0.0222	WOLONG	2	3	4	4	4	4	4
809	0.028	WOLONG	3	4	4	6	6	6	4
607	0.026	WUHAN	2	4	4	6	6	6	4
619	0.0316	WUHAN	4	4	4	6	6	6	4
630	0.043	WUXI	6	6	4	6	6	6	6
646	0.0347	WUXI	6	4	4	6	6	6	6
668	0.0257	XIUNING	2	4	4	6	6	6	4
599	0.0323	XIXIAKOU	6	4	4	6	6	6	6
605	0.0433	XIXIAKOU	6	6	4	6	6	6	6
413	0.0303	YAAN BC	3	4	4	6	6	6	4
424	0.0327	YAAN BC	4	4	4	6	6	6	6
467	0.0305	YAAN BC	3	4	4	6	6	6	4
488	0.0225	YAAN BC	2	3	2	4	44	4	4
502	0.017	YAAN BC	3	2	3	4	4	4	3

Males ⇩	MK⇩	Location	509	562	603	660	699	700	754
			0.0222	0.0123	0.0233	0	0	0	0.0079
		Females ⇨ MK⇨	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA	LOUGUANTA
503	0.0208	YAAN BC	2	3	2	4	4	4	4
542	0	YAAN BC	4	4	4	1	1	1	1
563	0.0252	YAAN BC	2	4	4	6	6	6	4
564	0.0314	YAAN BC	4	4	4	6	6	6	4
579	0.0009	YAAN BC	4	2	4	1	1	1	1
582	0.0202	YAAN BC	2	2	4	4	4	4	4
586	0.0255	YAAN BC	2	4	4	6	6	6	4
594	0	YAAN BC	4	4	4	1	1	1	1
595	0.0255	YAAN BC	2	4	6	6	6	6	4
621	0.0005	YAAN BC	4	2	4	1	1	1	1
623	0.0051	YAAN BC	4	1	4	1	1	1	1
661	0	YAAN BC	4	4	4	1	1	1	1
674	0.0108	YAAN BC	3	1	4	2	2	2	1
685	0.0272	YAAN BC	4	4	4	6	6	6	4
690	0.0199	YAAN BC	4	2	2	4	4	4	3
719	0.0182	YAAN BC	2	2	3	4	4	4	3
743	0.0131	YAAN BC	-	1	3	4	4	4	2
748	0.0137	YAAN BC	3	1	3	4	4	4	2
756	0.0203	YAAN BC	2	2	4	4	4	4	4
758	0.0217	YAAN BC	4	3	2	4	4	4	4
768	0.0336	YAAN BC	4	4	4	6	6	6	6
772	0.0222	YAAN BC	2	3	4	4	4	4	4
773	0.0356	YAAN BC	4	4	4	6	6	6	6
775	0.0104	YAAN BC	3	1	4	2	2	2	1
778	0.0267	YAAN BC	3	4	4	6	6	6	4
786	0.0294	YAAN BC	3	4	4	6	6	6	4
790	0.0311	YAAN BC	4	4	4	6	6	6	4
798	0.0178	YAAN BC	3	2	4	4	4	4	3
688	0.038	YANTAI	4	6	4	6	6	6	6

Males ⇩	MK⇩	Location	757 0.0154 LOUGUANTA	576 0.0203 MADRID Z	507 0.009 MEMPHIS	643 0.018 NANJING	651 0.0279 NANJING	473 0.0145 NZP-WASH	601 0.0212 PANYU
327	0.0014	ABERDE HK	4	4	1	4	6	4	4
606	0.0186	ABERDE HK	1	2	3	2	-	2	2
620	0.026	ADELAIDE	4	3	4	4	4	3	4
627	0.0423	ANJI BAMB	6	4	6	6	4	6	4
629	0.043	ANJI BAMB	6	4	6	6	4	6	4
666	0.0363	ANJI BAMB	4	4	6	4	4	4	4
461	0.018	ATLANTA	1	4	3	2	3	1	2
731	0.0195	ATLANTA	2	4	3	2	4	4	2
801	0.0195	ATLANTA	2	4	3	2	4	4	2
394	0.0482	BEIJING	6	6	6	6	4	6	6
496	0.0369	BEIJING	4	4	6	4	4	4	4
454	0.0321	CHENGDU	4	4	4	4	4	4	4
536	0.0287	CHENGDU	4	3	4	3	4	4	3
342	0.006	CHENPANDA	3	4	1	3	4	3	4
386	0.0202	CHENPANDA	3	2	3	2	3	2	2
455	0.0474	CHENPANDA	6	6	6	6	4	6	6
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	3	4	4	4	4	3
573	0.0274	CHENPANDA	3	3	4	4	4	4	3
574	0.0283	CHENPANDA	4	3	4	4	4	4	3
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	4	-	4	3	4	3	2
614	0.0274	CHENPANDA	3	3	4	4	4	4	3
644	0.0418	CHENPANDA	6	4	6	4	4	6	4
649	0.0195	CHENPANDA	2	4	3	2	4	4	2
662	0.0274	CHENPANDA	3	3	4	4	4	4	3
711	0.0154	CHENPANDA	1	4	2	1	4	1	3
717	0.0363	CHENPANDA	4	4	6	4	4	4	4
718	0.0363	CHENPANDA	4	4	6	4	4	4	4
724	0.0161	CHENPANDA	1	4	2	1	3	1	3
726	0.0229	CHENPANDA	4	-	4	3	3	3	2
727	0.0418	CHENPANDA	6	4	6	4	4	6	4
732	0.032	CHENPANDA	4	4	4	4	4	4	4
736	0.0182	CHENPANDA	4	-	3	2	3	1	2
769	0.0272	CHENPANDA	3	4	4	3	4	4	3
770	0.0236	CHENPANDA	3	4	4	3	3	3	2
780	0.0367	CHENPANDA	4	4	6	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	4	6	6	4	6	4
825	0.0254	CHENPANDA	3	4	4	3	4	3	3
510	0.0218	CHIANGMAI	-	2	4	4	3	3	4
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	6	4	-	4	4
676	0.0343	CHONGQING	4	4	6	4	-	4	4
525	0.0311	FUCHOW	4	3	4	4	4	4	4
532	0.0282	FUCHOW	4	3	4	3	4	4	4
538	0.036	FUCHOW	4	4	6	4	4	4	4
518	0.0307	GUANGZH Z	4	3	4	4	4	4	4
689	0.0199	GUANGZH Z	4	2	3	-	3	2	-
628	0.0423	GUIZHOU W	6	4	6	6	4	6	4
515	0.032	HEFEI W	4	4	4	4	4	4	4
592	0.0269	LANCHOW	3	4	4	3	4	4	3
714	0.0228	LIUGONGDA	4	2	4	3	3	3	2
377	0.0158	LOUGUANTA	4	-	2	1	3	1	3
460	0.0397	LOUGUANTA	6	4	6	4	4	6	4
553	0.0238	LOUGUANTA	3	2	4	4	4	4	2
624	0	LOUGUANTA	4	4	2	4	6	4	4
697	0.0012	LOUGUANTA	4	4	1	4	6	4	4

Males ⇩	MK⇩	Location	757 0.0154 LOUGUANTA	576 0.0203 MADRID Z	507 0.009 MEMPHIS	643 0.018 NANJING	651 0.0279 NANJING	473 0.0145 NZP-WASH	601 0.0212 PANYU
703	0	LOUGUANTA	4	4	2	4	6	4	4
753	0.0079	LOUGUANTA	4	4	1	3	4	4	4
802	0	LOUGUANTA	4	4	2	4	6	4	4
803	0	LOUGUANTA	4	4	2	4	6	4	4
520	0.0258	LUOYANG	3	3	4	3	4	3	3
519	0.0264	MADRID Z	3	3	4	3	4	3	3
792	0.0242	MADRID Z	4	-	4	3	2	3	2
793	0.0242	MADRID Z	4	-	4	3	2	3	2
466	0.0202	MEMPHIS	3	2	3	2	-	2	2
399	0.0427	NANCHANG	6	4	6	6	4	6	4
707	0.0356	NINGBO	4	4	6	4	-	4	4
708	0.0356	NINGBO	4	4	6	4	-	4	4
458	0.0348	NZP-WASH	4	4	6	4	4	4	4
609	0.0172	PANYU	1	2	3	1	3	1	2
613	0.0226	PANYU	3	2	4	3	-	3	2
742	0.0284	PANYU	4	3	4	4	4	4	-
744	0.0264	PANYU	3	3	4	3	4	3	3
747	0.022	PANYU	3	2	4	2	-	4	2
750	0.0309	PANYU	4	3	4	4	4	4	4
415	0.0044	SANDIEGOZ	3	4	1	4	4	3	4
749	0.025	SANDIEGOZ	3	3	4	3	2	3	4
357	0.0024	SHANGHAI	4	4	1	4	6	2	4
492	0.0307	SHANGHAI	4	3	4	4	4	-	4
583	0.0362	SHANGHAI	4	4	6	4	-	4	4
745	0.0258	SHANGHAI	3	3	4	3	4	3	3
746	0.0258	SHANGHAI	3	3	4	3	4	3	3
752	0.0129	SHANGHAI	1	2	4	4	4	1	3
588	0.0316	TAIPEI	4	3	4	4	-	4	3
659	0	TAIYUAN	4	4	2	4	6	4	4
589	0.0316	TIANJIN	4	3	4	4	-	4	3
721	0.03	TIANMUHU	4	3	4	3	4	4	4
612	0.0362	TOKYOUENO	4	4	6	4	-	4	4
526	0.019	VIENNA	4	2	3	-	3	2	4
789	0.0272	VIENNA	4	3	4	4	4	4	4
390	0.0243	WAKAYAMA	3	2	4	4	2	3	2
738	0.0305	WAKAYAMA	4	3	4	4	4	4	3
782	0.0305	WAKAYAMA	4	3	4	4	4	4	3
713	0.02	WEIFANG	-	6	3	4	3	2	4
715	0.0257	WEIFANG	4	-	4	3	4	3	3
633	0.0323	WENLING S	4	3	4	4	-	4	4
636	0.0303	WENLING S	4	3	4	4	4	4	3
639	0.0297	WENLING S	4	3	4	3	4	4	4
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	6	4	4	4	4
777	0.0122	WOLONG	1	2	1	2	4	1	3
807	0.0222	WOLONG	3	2	4	3	3	3	-
809	0.028	WOLONG	4	3	4	3	4	4	-
607	0.026	WUHAN	3	3	-	-	4	3	4
619	0.0316	WUHAN	4	3	4	4	-	4	3
630	0.043	WUXI	6	4	6	6	4	6	4
646	0.0347	WUXI	4	4	6	4	4	4	4
668	0.0257	XIUNING	3	3	4	3	4	3	3
599	0.0323	XIXIAKOU	4	3	4	4	4	4	4
605	0.0433	XIXIAKOU	6	4	6	6	4	6	4
413	0.0303	YAAN BC	4	3	4	4	4	4	6
424	0.0327	YAAN BC	4	4	4	4	-	4	4
467	0.0305	YAAN BC	4	-	4	4	4	4	3
488	0.0225	YAAN BC	3	2	4	4	3	3	2
502	0.017	YAAN BC	1	2	2	1	3	1	-

Males ⇩	MK⇩	Females ⇨ MK⇨ Location	757 0.0154 LOUGUANTA	576 0.0203 MADRID Z	507 0.009 MEMPHIS	643 0.018 NANJING	651 0.0279 NANJING	473 0.0145 NZP-WASH	601 0.0212 PANYU
503	0.0208	YAAN BC	3	2	3	2	3	2	2
542	0	YAAN BC	4	4	2	4	6	4	4
563	0.0252	YAAN BC	3	3	4	3	4	3	4
564	0.0314	YAAN BC	4	3	4	4	4	4	4
579	0.0009	YAAN BC	4	4	1	4	6	4	4
582	0.0202	YAAN BC	3	2	3	2	3	2	4
586	0.0255	YAAN BC	3	3	4	3	4	3	4
594	0	YAAN BC	4	4	2	4	6	4	4
595	0.0255	YAAN BC	3	3	4	3	4	-	4
621	0.0005	YAAN BC	4	4	2	4	6	4	4
623	0.0051	YAAN BC	3	4	1	4	4	3	4
661	0	YAAN BC	4	4	2	4	6	4	4
674	0.0108	YAAN BC	2	3	1	2	4	1	-
685	0.0272	YAAN BC	4	3	4	4	4	4	4
690	0.0199	YAAN BC	4	2	3	-	3	2	-
719	0.0182	YAAN BC	1	2	3	2	-	1	2
743	0.0131	YAAN BC	4	2	2	2	4	1	2
748	0.0137	YAAN BC	1	2	4	4	4	1	2
756	0.0203	YAAN BC	3	2	3	2	4	2	2
758	0.0217	YAAN BC	4	2	4	-	3	3	4
768	0.0336	YAAN BC	4	4	6	4	-	4	4
772	0.0222	YAAN BC	3	2	4	4	3	3	4
773	0.0356	YAAN BC	4	4	6	4	-	4	4
775	0.0104	YAAN BC	2	3	1	2	4	1	6
778	0.0267	YAAN BC	3	3	4	4	4	3	3
786	0.0294	YAAN BC	4	3	4	4	4	4	3
790	0.0311	YAAN BC	4	3	4	4	4	4	3
798	0.0178	YAAN BC	1	2	3	2	3	1	2
688	0.038	YANTAI	4	4	6	4	4	4	4

Males ⇩	MK⇩	Location	618 0.0316 PANYU	741 0.028 PANYU	751 0.0309 PANYU	371 0.0437 SANDIEGOZ	706 0.0249 SHANGHAI	734 0.0285 SHANGHAI	735 0.0285 SHANGHAI
		Females ⇨ MK⇨							
327	0.0014	ABERDE HK	6	6	6	6	4	6	6
606	0.0186	ABERDE HK	-	4	4	6	-	3	3
620	0.026	ADELAIDE	4	4	4	4	2	4	4
627	0.0423	ANJI BAMB	4	4	4	5	4	4	4
629	0.043	ANJI BAMB	4	4	4	5	4	4	4
666	0.0363	ANJI BAMB	5	4	4	5	4	4	4
461	0.018	ATLANTA	4	3	4	6	3	3	3
731	0.0195	ATLANTA	3	3	3	4	3	3	3
801	0.0195	ATLANTA	3	3	3	4	3	3	3
394	0.0482	BEIJING	5	5	-	-	4	6	6
496	0.0369	BEIJING	4	4	5	-	4	4	4
454	0.0321	CHENGDU	4	4	4	4	4	4	4
536	0.0287	CHENGDU	4	4	4	4	4	4	4
342	0.006	CHENPANDA	6	4	6	6	4	4	4
386	0.0202	CHENPANDA	3	3	3	4	3	3	3
455	0.0474	CHENPANDA	5	4	4	5	4	4	4
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	4	4	4	4	4
573	0.0274	CHENPANDA	4	4	4	4	2	4	4
574	0.0283	CHENPANDA	4	4	4	4	4	4	4
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	4	4	4	4	4	3	3
614	0.0274	CHENPANDA	4	4	4	4	2	4	4
644	0.0418	CHENPANDA	4	4	4	5	4	4	4
649	0.0195	CHENPANDA	3	3	3	4	3	3	3
662	0.0274	CHENPANDA	4	4	4	4	2	4	4
711	0.0154	CHENPANDA	4	4	4	6	3	4	4
717	0.0363	CHENPANDA	5	4	4	5	4	4	4
718	0.0363	CHENPANDA	5	4	4	5	4	4	4
724	0.0161	CHENPANDA	4	3	4	6	3	4	4
726	0.0229	CHENPANDA	4	3	4	4	2	3	3
727	0.0418	CHENPANDA	4	4	4	5	4	4	4
732	0.032	CHENPANDA	4	4	4	4	4	4	4
736	0.0182	CHENPANDA	4	3	4	6	3	3	3
769	0.0272	CHENPANDA	4	4	4	4	2	4	4
770	0.0236	CHENPANDA	4	3	4	4	2	3	3
780	0.0367	CHENPANDA	4	4	4	5	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	4	5	4	4	4
825	0.0254	CHENPANDA	4	4	4	4	2	4	4
510	0.0218	CHIANGMAI	4	3	3	4	2	3	3
513	0.0326	CHONGQING	4	4	4	-	-	4	4
648	0.0343	CHONGQING	-	4	4	4	-	4	4
676	0.0343	CHONGQING	-	4	4	4	-	4	4
525	0.0311	FUCHOW	4	4	4	-	4	4	4
532	0.0282	FUCHOW	4	4	4	-	4	4	4
538	0.036	FUCHOW	4	4	5	6	4	4	4
518	0.0307	GUANGZH Z	4	4	4	-	4	4	4
689	0.0199	GUANGZH Z	3	4	3	4	3	3	3
628	0.0423	GUIZHOU W	4	4	4	5	4	4	4
515	0.032	HEFEI W	4	4	4	4	4	4	4
592	0.0269	LANCHOW	4	4	4	4	2	4	4
714	0.0228	LIUGONGDA	4	3	4	4	2	3	3
377	0.0158	LOUGUANTA	4	3	4	6	3	4	4
460	0.0397	LOUGUANTA	5	5	-	-	4	5	5
553	0.0238	LOUGUANTA	4	3	4	4	2	4	4
624	0	LOUGUANTA	6	6	6	6	6	6	6
697	0.0012	LOUGUANTA	6	6	6	6	4	6	6

Males ⇩	MK⇩	Location	618 0.0316 PANYU	741 0.028 PANYU	751 0.0309 PANYU	371 0.0437 SANDIEGOZ	706 0.0249 SHANGHAI	734 0.0285 SHANGHAI	735 0.0285 SHANGHAI
703	0	LOUGUANTA	6	6	6	6	6	6	6
753	0.0079	LOUGUANTA	4	4	4	6	4	4	4
802	0	LOUGUANTA	6	6	6	6	6	6	6
803	0	LOUGUANTA	6	6	6	6	6	6	6
520	0.0258	LUOYANG	4	4	4	4	2	4	4
519	0.0264	MADRID Z	4	4	4	4	2	4	4
792	0.0242	MADRID Z	4	2	4	4	2	3	3
793	0.0242	MADRID Z	4	2	4	4	2	3	3
466	0.0202	MEMPHIS	-	4	3	4	-	3	3
399	0.0427	NANCHANG	5	5	-	-	4	5	5
707	0.0356	NINGBO	-	4	4	5	-	4	4
708	0.0356	NINGBO	-	4	4	5	-	4	4
458	0.0348	NZP-WASH	4	4	5	-	4	4	4
609	0.0172	PANYU	4	4	4	6	3	4	4
613	0.0226	PANYU	-	4	4	4	-	4	4
742	0.0284	PANYU	4	4	4	5	4	4	4
744	0.0264	PANYU	4	4	4	5	2	4	4
747	0.022	PANYU	4	3	3	4	4	3	3
750	0.0309	PANYU	4	4	-	-	4	4	4
415	0.0044	SANDIEGOZ	6	4	6	6	4	4	4
749	0.025	SANDIEGOZ	4	4	4	-	2	4	4
357	0.0024	SHANGHAI	6	6	6	6	4	6	6
492	0.0307	SHANGHAI	4	4	4	-	4	4	4
583	0.0362	SHANGHAI	-	4	4	5	-	4	4
745	0.0258	SHANGHAI	4	4	4	5	2	4	4
746	0.0258	SHANGHAI	4	4	4	5	2	4	4
752	0.0129	SHANGHAI	4	4	4	6	3	6	6
588	0.0316	TAIPEI	-	-	4	-	-	4	4
659	0	TAIYUAN	6	6	6	6	6	6	6
589	0.0316	TIANJIN	-	-	4	-	-	4	4
721	0.03	TIANMUHU	4	4	4	5	4	4	4
612	0.0362	TOKYOUENO	-	4	4	5	-	4	4
526	0.019	VIENNA	4	3	3	6	3	3	3
789	0.0272	VIENNA	4	4	4	5	4	4	4
390	0.0243	WAKAYAMA	4	2	6	4	2	-	-
738	0.0305	WAKAYAMA	4	4	4	4	4	4	4
782	0.0305	WAKAYAMA	4	4	4	4	4	4	4
713	0.02	WEIFANG	3	3	3	4	3	3	3
715	0.0257	WEIFANG	4	4	4	4	2	4	4
633	0.0323	WENLING S	-	4	4	5	-	4	4
636	0.0303	WENLING S	4	4	4	5	4	4	4
639	0.0297	WENLING S	4	4	4	5	4	4	4
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	4	5	4	4	4
777	0.0122	WOLONG	4	4	4	6	4	4	4
807	0.0222	WOLONG	4	6	4	-	2	4	4
809	0.028	WOLONG	4	4	4	5	2	4	4
607	0.026	WUHAN	4	4	6	5	2	4	4
619	0.0316	WUHAN	-	-	4	-	-	4	4
630	0.043	WUXI	4	4	4	5	4	4	4
646	0.0347	WUXI	4	4	4	4	4	4	4
668	0.0257	XIUNING	-	-	4	-	2	4	4
599	0.0323	XIXIAKOU	4	4	4	4	-	4	4
605	0.0433	XIXIAKOU	4	4	4	6	4	4	4
413	0.0303	YAAN BC	4	4	4	-	4	4	4
424	0.0327	YAAN BC	-	-	4	4	-	4	4
467	0.0305	YAAN BC	4	4	4	4	4	4	4
488	0.0225	YAAN BC	4	3	6	4	2	-	-
502	0.017	YAAN BC	4	-	4	6	3	3	3

Males ⇩	MK⇩	Location	618 0.0316 PANYU	741 0.028 PANYU	751 0.0309 PANYU	371 0.0437 SANDIEGOZ	706 0.0249 SHANGHAI	734 0.0285 SHANGHAI	735 0.0285 SHANGHAI
		Females ⇨ MK⇨							
503	0.0208	YAAN BC	3	3	3	4	3	3	3
542	0	YAAN BC	6	6	6	6	6	6	6
563	0.0252	YAAN BC	4	4	4	-	2	4	4
564	0.0314	YAAN BC	4	4	4	-	4	4	4
579	0.0009	YAAN BC	6	6	6	6	4	6	6
582	0.0202	YAAN BC	4	4	4	4	3	4	4
586	0.0255	YAAN BC	4	4	-	-	2	4	4
594	0	YAAN BC	6	6	6	6	6	6	6
595	0.0255	YAAN BC	4	4	4	5	2	4	4
621	0.0005	YAAN BC	6	6	6	6	6	6	6
623	0.0051	YAAN BC	6	4	6	6	4	4	4
661	0	YAAN BC	6	6	6	6	6	6	6
674	0.0108	YAAN BC	4	4	4	6	4	4	4
685	0.0272	YAAN BC	4	4	4	5	4	4	4
690	0.0199	YAAN BC	3	4	3	4	3	3	3
719	0.0182	YAAN BC	-	4	4	6	-	3	3
743	0.0131	YAAN BC	4	4	4	6	3	4	4
748	0.0137	YAAN BC	4	4	4	6	3	6	6
756	0.0203	YAAN BC	4	4	4	4	-	3	3
758	0.0217	YAAN BC	4	3	3	4	2	3	3
768	0.0336	YAAN BC	-	4	4	5	-	-	-
772	0.0222	YAAN BC	4	4	4	5	2	4	4
773	0.0356	YAAN BC	-	4	4	5	-	4	4
775	0.0104	YAAN BC	4	4	4	6	4	4	4
778	0.0267	YAAN BC	4	4	6	5	2	-	-
786	0.0294	YAAN BC	4	4	4	5	4	-	-
790	0.0311	YAAN BC	4	4	4	5	4	-	-
798	0.0178	YAAN BC	-	-	4	-	3	4	4
688	0.038	YANTAI	4	4	5	-	4	5	5

Males ⇩	MK⇩	Location	Females ⇨ 739 0.0199 SHANGHAI	549 0.0327 TAIHU EP	565 0.0314 TAIHU EP	587 0.03 TAIPEI	712 0.0228 TIANMUHU	600 0.0323 TOKYOUENO	514 0.0335 VIENNA
327	0.0014	ABERDE HK	4	6	6	6	4	6	6
606	0.0186	ABERDE HK	2	4	4	3	3	4	4
620	0.026	ADELAIDE	4	4	4	-	4	-	4
627	0.0423	ANJI BAMB	4	4	4	-	4	-	4
629	0.043	ANJI BAMB	4	4	4	-	5	-	4
666	0.0363	ANJI BAMB	4	4	4	-	4	-	4
461	0.018	ATLANTA	2	4	4	3	3	4	4
731	0.0195	ATLANTA	2	4	3	3	2	4	4
801	0.0195	ATLANTA	2	4	3	3	2	4	4
394	0.0482	BEIJING	6	-	-	4	6	5	-
496	0.0369	BEIJING	4	6	-	4	4	4	5
454	0.0321	CHENGDU	3	4	4	4	4	4	4
536	0.0287	CHENGDU	3	4	4	4	3	4	4
342	0.006	CHENPANDA	4	6	6	4	4	6	6
386	0.0202	CHENPANDA	2	4	3	3	2	3	4
455	0.0474	CHENPANDA	6	5	5	-	-	-	5
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	3	4	4	4	3	4	4
573	0.0274	CHENPANDA	3	4	4	4	3	4	4
574	0.0283	CHENPANDA	3	4	4	4	3	4	4
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	2	4	4	3	2	4	4
614	0.0274	CHENPANDA	3	4	4	4	3	4	4
644	0.0418	CHENPANDA	4	4	4	-	4	-	4
649	0.0195	CHENPANDA	2	4	3	3	2	4	4
662	0.0274	CHENPANDA	3	4	4	4	3	4	4
711	0.0154	CHENPANDA	2	4	4	4	3	4	4
717	0.0363	CHENPANDA	4	4	4	-	4	-	4
718	0.0363	CHENPANDA	4	4	4	-	4	-	4
724	0.0161	CHENPANDA	2	4	4	4	3	4	4
726	0.0229	CHENPANDA	2	4	4	3	2	4	4
727	0.0418	CHENPANDA	4	4	4	-	4	-	4
732	0.032	CHENPANDA	3	4	4	4	4	4	4
736	0.0182	CHENPANDA	2	4	4	3	3	4	4
769	0.0272	CHENPANDA	3	4	4	4	3	4	4
770	0.0236	CHENPANDA	2	4	4	4	2	4	4
780	0.0367	CHENPANDA	4	4	4	5	4	5	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	4	-	5	-	4
825	0.0254	CHENPANDA	3	4	4	4	2	4	4
510	0.0218	CHIANGMAI	4	4	4	6	-	6	4
513	0.0326	CHONGQING	4	6	4	4	4	-	-
648	0.0343	CHONGQING	4	4	4	4	4	4	4
676	0.0343	CHONGQING	4	4	4	4	4	4	4
525	0.0311	FUCHOW	3	6	4	4	4	4	-
532	0.0282	FUCHOW	3	6	-	4	3	4	-
538	0.036	FUCHOW	4	6	6	4	4	4	5
518	0.0307	GUANGZH Z	4	6	4	4	4	4	-
689	0.0199	GUANGZH Z	-	4	3	4	2	4	4
628	0.0423	GUIZHOU W	4	4	4	-	4	-	4
515	0.032	HEFEI W	3	4	4	4	4	4	4
592	0.0269	LANCHOW	3	4	4	4	3	4	4
714	0.0228	LIUGONGDA	2	4	4	4	-	4	4
377	0.0158	LOUGUANTA	3	4	4	4	3	4	4
460	0.0397	LOUGUANTA	4	6	-	4	4	4	-
553	0.0238	LOUGUANTA	2	4	4	4	2	4	4
624	0	LOUGUANTA	4	6	6	6	4	6	6
697	0.0012	LOUGUANTA	4	6	6	6	4	6	6

Males ⇩	MK⇩	Location	739 0.0199 SHANGHAI	549 0.0327 TAIHU EP	565 0.0314 TAIHU EP	587 0.03 TAIPEI	712 0.0228 TIANMUHU	600 0.0323 TOKYOUENO	514 0.0335 VIENNA
703	0	LOUGUANTA	4	6	6	6	4	6	6
753	0.0079	LOUGUANTA	3	6	4	4	4	6	6
802	0	LOUGUANTA	4	6	6	6	4	6	6
803	0	LOUGUANTA	4	6	6	6	4	6	6
520	0.0258	LUOYANG	3	4	4	4	2	4	4
519	0.0264	MADRID Z	3	4	4	4	2	4	4
792	0.0242	MADRID Z	3	4	4	4	2	4	4
793	0.0242	MADRID Z	3	4	4	4	2	4	4
466	0.0202	MEMPHIS	2	4	3	3	2	3	4
399	0.0427	NANCHANG	4	6	-	4	4	4	-
707	0.0356	NINGBO	4	6	5	4	4	4	4
708	0.0356	NINGBO	4	6	5	4	4	4	4
458	0.0348	NZP-WASH	4	6	-	4	4	4	5
609	0.0172	PANYU	2	4	6	4	3	4	4
613	0.0226	PANYU	2	-	4	-	2	4	4
742	0.0284	PANYU	-	4	4	4	3	4	4
744	0.0264	PANYU	3	4	6	4	-	4	4
747	0.022	PANYU	2	4	4	3	-	4	4
750	0.0309	PANYU	3	4	4	4	4	4	4
415	0.0044	SANDIEGOZ	4	6	6	6	4	6	6
749	0.025	SANDIEGOZ	3	4	4	4	2	4	4
357	0.0024	SHANGHAI	4	6	6	6	4	6	6
492	0.0307	SHANGHAI	3	6	-	4	4	4	4
583	0.0362	SHANGHAI	4	4	4	4	4	4	5
745	0.0258	SHANGHAI	3	6	4	4	-	4	4
746	0.0258	SHANGHAI	3	6	4	4	-	4	4
752	0.0129	SHANGHAI	2	4	4	4	3	4	4
588	0.0316	TAIPEI	3	4	4	4	4	4	4
659	0	TAIYUAN	4	6	6	6	4	6	6
589	0.0316	TIANJIN	3	4	4	4	4	4	4
721	0.03	TIANMUHU	3	4	4	4	-	4	4
612	0.0362	TOKYOUENO	4	4	4	4	4	4	5
526	0.019	VIENNA	-	4	4	4	2	4	4
789	0.0272	VIENNA	4	4	4	4	3	4	-
390	0.0243	WAKAYAMA	3	4	4	4	2	4	4
738	0.0305	WAKAYAMA	3	4	4	4	4	4	4
782	0.0305	WAKAYAMA	3	4	4	4	4	4	4
713	0.02	WEIFANG	4	4	3	4	4	4	4
715	0.0257	WEIFANG	3	4	4	4	2	4	4
633	0.0323	WENLING S	4	4	6	4	4	4	5
636	0.0303	WENLING S	4	4	4	4	-	4	4
639	0.0297	WENLING S	3	6	4	4	-	4	4
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	4	-	4	-	4
777	0.0122	WOLONG	2	4	4	4	-	4	4
807	0.0222	WOLONG	-	4	4	3	2	4	4
809	0.028	WOLONG	-	4	4	4	3	4	4
607	0.026	WUHAN	3	6	4	4	2	4	4
619	0.0316	WUHAN	3	4	4	4	4	4	4
630	0.043	WUXI	4	4	4	-	5	-	4
646	0.0347	WUXI	4	4	4	-	4	-	4
668	0.0257	XIUNING	3	4	4	4	-	4	4
599	0.0323	XIXIAKOU	4	4	4	-	4	-	-
605	0.0433	XIXIAKOU	4	5	6	-	5	-	4
413	0.0303	YAAN BC	3	6	-	4	4	4	4
424	0.0327	YAAN BC	4	4	4	4	4	4	4
467	0.0305	YAAN BC	3	4	4	4	4	4	4
488	0.0225	YAAN BC	2	4	4	3	2	4	4
502	0.017	YAAN BC	-	4	4	4	3	4	4

2012 MSI Table **Yellow Hilights are female to be bred and the males they can be bred with**

Males ⇩	MK⇩	Location	739 0.0199 SHANGHAI	549 0.0327 TAIHU EP	565 0.0314 TAIHU EP	587 0.03 TAIPEI	712 0.0228 TIANMUHU	600 0.0323 TOKYOUENO	514 0.0335 VIENNA
		Females ⇨ MK⇨							
503	0.0208	YAAN BC	2	4	3	3	-	3	4
542	0	YAAN BC	4	6	6	6	4	6	6
563	0.0252	YAAN BC	3	4	4	4	2	4	4
564	0.0314	YAAN BC	3	6	-	4	4	4	4
579	0.0009	YAAN BC	4	6	6	6	4	6	6
582	0.0202	YAAN BC	2	4	4	4	2	4	4
586	0.0255	YAAN BC	3	4	-	4	2	4	4
594	0	YAAN BC	4	6	6	6	4	6	6
595	0.0255	YAAN BC	3	4	4	4	2	4	4
621	0.0005	YAAN BC	4	6	6	6	4	6	6
623	0.0051	YAAN BC	4	6	6	6	4	6	6
661	0	YAAN BC	4	6	6	6	4	6	6
674	0.0108	YAAN BC	-	4	4	4	3	4	4
685	0.0272	YAAN BC	4	4	4	4	3	4	-
690	0.0199	YAAN BC	-	4	3	4	2	4	4
719	0.0182	YAAN BC	2	4	4	3	3	4	4
743	0.0131	YAAN BC	2	4	4	4	-	4	4
748	0.0137	YAAN BC	2	4	4	4	3	4	4
756	0.0203	YAAN BC	2	4	4	3	4	-	-
758	0.0217	YAAN BC	-	4	4	4	-	4	4
768	0.0336	YAAN BC	4	-	4	4	4	4	4
772	0.0222	YAAN BC	6	4	4	3	2	4	4
773	0.0356	YAAN BC	4	6	5	4	4	4	4
775	0.0104	YAAN BC	6	4	4	4	4	4	4
778	0.0267	YAAN BC	3	6	4	4	2	4	4
786	0.0294	YAAN BC	3	4	4	4	3	4	6
790	0.0311	YAAN BC	4	4	4	4	4	4	4
798	0.0178	YAAN BC	2	4	4	3	3	4	4
688	0.038	YANTAI	4	-	6	6	4	5	6

Males ⇩	MK⇩	Location	521 0.0348 WAKAYAMA	663 0.0274 WAKAYAMA	737 0.0305 WAKAYAMA	783 0.0305 WAKAYAMA	437 0.0357 WOLONG	476 0.0371 WOLONG	581 0.0018 WOLONG
		Females ⇨ MK⇨ Location							
327	0.0014	ABERDE HK	6	6	6	6	6	6	1
606	0.0186	ABERDE HK	4	3	3	3	4	4	4
620	0.026	ADELAIDE	4	4	4	4	4	4	4
627	0.0423	ANJI BAMB	-	5	5	5	4	5	6
629	0.043	ANJI BAMB	-	5	5	5	5	5	6
666	0.0363	ANJI BAMB	4	4	4	4	4	4	6
461	0.018	ATLANTA	4	3	4	4	4	4	4
731	0.0195	ATLANTA	4	4	4	4	4	4	4
801	0.0195	ATLANTA	4	4	4	4	4	4	4
394	0.0482	BEIJING	5	4	5	5	-	-	6
496	0.0369	BEIJING	4	4	4	4	-	-	6
454	0.0321	CHENGDU	-	4	4	4	4	4	6
536	0.0287	CHENGDU	-	4	4	4	4	4	6
342	0.006	CHENPANDA	6	4	6	6	6	6	1
386	0.0202	CHENPANDA	4	4	4	4	4	4	4
455	0.0474	CHENPANDA	5	4	4	4	5	5	6
529	0.0327	CHENPANDA	-	4	4	4	4	4	6
540	0.0285	CHENPANDA	-	-	-	-	4	4	6
573	0.0274	CHENPANDA	-	-	-	-	4	4	6
574	0.0283	CHENPANDA	-	-	-	-	4	4	6
575	0.0325	CHENPANDA	-	4	4	4	4	4	6
584	0.0221	CHENPANDA	4	3	3	3	4	4	4
614	0.0274	CHENPANDA	-	-	-	-	4	4	6
644	0.0418	CHENPANDA	5	4	4	4	4	5	6
649	0.0195	CHENPANDA	4	4	4	4	4	4	4
662	0.0274	CHENPANDA	-	-	-	-	4	4	6
711	0.0154	CHENPANDA	4	4	4	4	4	4	4
717	0.0363	CHENPANDA	4	4	4	4	4	4	6
718	0.0363	CHENPANDA	4	4	4	4	4	4	6
724	0.0161	CHENPANDA	4	4	4	4	4	4	4
726	0.0229	CHENPANDA	4	3	4	4	4	4	4
727	0.0418	CHENPANDA	5	4	4	4	4	5	6
732	0.032	CHENPANDA	-	-	-	-	4	4	6
736	0.0182	CHENPANDA	4	4	4	4	4	4	4
769	0.0272	CHENPANDA	6	4	4	4	4	4	6
770	0.0236	CHENPANDA	4	2	4	4	4	4	4
780	0.0367	CHENPANDA	-	4	5	5	4	4	6
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	-	5	5	5	5	5	6
825	0.0254	CHENPANDA	4	4	4	4	4	4	4
510	0.0218	CHIANGMAI	4	3	3	3	4	4	4
513	0.0326	CHONGQING	4	4	4	4	5	5	6
648	0.0343	CHONGQING	5	4	4	4	4	4	6
676	0.0343	CHONGQING	5	4	4	4	4	4	6
525	0.0311	FUCHOW	4	4	4	4	-	-	6
532	0.0282	FUCHOW	4	4	4	4	4	4	6
538	0.036	FUCHOW	4	4	4	4	6	6	6
518	0.0307	GUANGZH Z	4	4	4	4	5	5	6
689	0.0199	GUANGZH Z	4	3	3	3	4	4	4
628	0.0423	GUIZHOU W	-	5	5	5	4	5	6
515	0.032	HEFEI W	-	4	4	4	4	4	6
592	0.0269	LANCHOW	-	4	4	4	4	4	6
714	0.0228	LIUGONGDA	4	3	4	4	4	4	4
377	0.0158	LOUGUANTA	4	3	4	4	4	4	4
460	0.0397	LOUGUANTA	4	4	4	4	-	-	6
553	0.0238	LOUGUANTA	4	-	-	-	4	4	4
624	0	LOUGUANTA	6	66	6	6	6	6	1
697	0.0012	LOUGUANTA	6	6	6	6	6	6	1

Males ⇩	MK⇩	Location	521 0.0348 WAKAYAMA	663 0.0274 WAKAYAMA	737 0.0305 WAKAYAMA	783 0.0305 WAKAYAMA	437 0.0357 WOLONG	476 0.0371 WOLONG	581 0.0018 WOLONG
		Females ⇨ MK⇨ Location							
703	0	LOUGUANTA	6	6	6	6	6	6	1
753	0.0079	LOUGUANTA	6	4	4	4	6	6	1
802	0	LOUGUANTA	6	6	6	6	6	6	1
803	0	LOUGUANTA	6	6	6	6	6	6	1
520	0.0258	LUOYANG	-	4	4	4	4	4	4
519	0.0264	MADRID Z	-	4	4	4	4	4	6
792	0.0242	MADRID Z	4	2	4	4	4	4	4
793	0.0242	MADRID Z	4	2	4	4	4	4	4
466	0.0202	MEMPHIS	4	3	3	3	4	4	4
399	0.0427	NANCHANG	4	4	4	4	-	-	6
707	0.0356	NINGBO	4	4	4	4	5	5	6
708	0.0356	NINGBO	4	4	4	4	5	5	6
458	0.0348	NZP-WASH	4	4	4	4	-	-	6
609	0.0172	PANYU	4	3	4	4	4	4	4
613	0.0226	PANYU	4	3	3	3	4	4	4
742	0.0284	PANYU	4	4	4	4	4	4	6
744	0.0264	PANYU	4	4	4	4	4	4	6
747	0.022	PANYU	4	4	4	4	4	4	4
750	0.0309	PANYU	4	4	4	4	5	5	6
415	0.0044	SANDIEGOZ	6	4	6	6	6	6	1
749	0.025	SANDIEGOZ	4	2	4	4	4	4	4
357	0.0024	SHANGHAI	6	6	6	6	6	6	1
492	0.0307	SHANGHAI	4	4	4	4	-	-	6
583	0.0362	SHANGHAI	4	4	4	4	4	4	6
745	0.0258	SHANGHAI	4	4	4	4	4	4	4
746	0.0258	SHANGHAI	4	4	4	4	4	4	4
752	0.0129	SHANGHAI	4	4	4	4	4	6	2
588	0.0316	TAIPEI	4	4	4	4	4	4	6
659	0	TAIYUAN	6	6	6	6	6	6	1
589	0.0316	TIANJIN	4	4	4	4	4	4	6
721	0.03	TIANMUHU	4	4	4	4	-	-	6
612	0.0362	TOKYOUENO	4	4	4	4	4	4	6
526	0.019	VIENNA	4	3	3	3	4	4	4
789	0.0272	VIENNA	4	4	4	4	4	4	6
390	0.0243	WAKAYAMA	4	-	-	-	4	4	4
738	0.0305	WAKAYAMA	-	-	-	-	4	4	6
782	0.0305	WAKAYAMA	-	-	-	-	4	4	6
713	0.02	WEIFANG	4	3	3	3	4	4	4
715	0.0257	WEIFANG	4	4	4	4	4	4	4
633	0.0323	WENLING S	4	4	4	4	4	4	6
636	0.0303	WENLING S	4	4	4	4	4	4	6
639	0.0297	WENLING S	4	4	4	4	4	5	6
530	0.0327	WENZHOU	-	4	4	4	4	4	6
670	0.0368	WENZHOU	4	4	4	4	4	4	6
777	0.0122	WOLONG	4	4	4	4	4	6	-
807	0.0222	WOLONG	4	3	3	3	4	4	4
809	0.028	WOLONG	4	4	4	4	-	-	6
607	0.026	WUHAN	4	4	4	4	4	4	4
619	0.0316	WUHAN	4	4	4	4	4	4	6
630	0.043	WUXI	-	5	5	5	5	5	6
646	0.0347	WUXI	4	4	4	4	4	4	6
668	0.0257	XIUNING	4	4	4	4	4	4	4
599	0.0323	XIXIAKOU	4	4	4	4	4	4	6
605	0.0433	XIXIAKOU	4	4	4	4	-	-	6
413	0.0303	YAAN BC	4	4	4	4	-	-	6
424	0.0327	YAAN BC	4	4	4	4	4	4	6
467	0.0305	YAAN BC	-	4	4	4	4	4	6
488	0.0225	YAAN BC	4	-	-	-	4	4	4
502	0.017	YAAN BC	4	3	4	4	4	4	4

Males ⇩	MK⇩	Location	521 0.0348 WAKAYAMA	663 0.0274 WAKAYAMA	737 0.0305 WAKAYAMA	783 0.0305 WAKAYAMA	437 0.0357 WOLONG	476 0.0371 WOLONG	581 0.0018 WOLONG
		Females ⇨ MK⇨							
503	0.0208	YAAN BC	4	3	3	3	4	4	4
542	0	YAAN BC	6	6	6	6	6	6	1
563	0.0252	YAAN BC	4	2	4	4	4	4	4
564	0.0314	YAAN BC	4	4	4	4	-	-	6
579	0.0009	YAAN BC	6	6	6	6	6	6	1
582	0.0202	YAAN BC	4	3	3	3	-	-	4
586	0.0255	YAAN BC	4	2	4	4	4	4	4
594	0	YAAN BC	6	6	6	6	6	6	1
595	0.0255	YAAN BC	4	4	4	4	-	-	4
621	0.0005	YAAN BC	6	6	6	6	6	6	1
623	0.0051	YAAN BC	6	4	6	6	6	6	1
661	0	YAAN BC	6	6	6	6	6	6	1
674	0.0108	YAAN BC	4	4	4	4	6	6	2
685	0.0272	YAAN BC	4	4	4	4	4	4	6
690	0.0199	YAAN BC	4	3	3	3	4	4	4
719	0.0182	YAAN BC	4	3	4	4	4	4	-
743	0.0131	YAAN BC	4	4	4	4	4	4	2
748	0.0137	YAAN BC	4	4	4	4	4	4	2
756	0.0203	YAAN BC	4	3	3	3	4	4	4
758	0.0217	YAAN BC	4	3	3	3	4	4	4
768	0.0336	YAAN BC	4	4	4	4	4	4	6
772	0.0222	YAAN BC	4	3	3	3	4	4	4
773	0.0356	YAAN BC	4	4	4	4	5	5	6
775	0.0104	YAAN BC	6	4	4	4	6	6	2
778	0.0267	YAAN BC	4	4	4	4	4	4	6
786	0.0294	YAAN BC	4	4	4	4	4	4	6
790	0.0311	YAAN BC	4	4	4	4	4	4	6
798	0.0178	YAAN BC	4	3	4	4	4	4	4
688	0.038	YANTAI	4	4	4	4	6	6	6

Males ⇓	MK⇓	Location	596 0.0255 WOLONG	810 0.028 WOLONG	812 0.0213 WOLONG	654 0.021 XIUNING	672 0.03 XIUNING	432 0.0373 YAAN BC	439 0.0235 YAAN BC
327	0.0014	ABERDE HK	4	6	4	4	6	6	4
606	0.0186	ABERDE HK	3	3	2	2	3	4	3
620	0.026	ADELAIDE	4	4	4	-	4	4	4
627	0.0423	ANJI BAMB	4	4	4	4	4	5	4
629	0.043	ANJI BAMB	4	4	4	4	4	5	4
666	0.0363	ANJI BAMB	4	4	4	4	4	4	4
461	0.018	ATLANTA	3	3	2	2	3	4	3
731	0.0195	ATLANTA	3	3	2	2	3	4	2
801	0.0195	ATLANTA	3	3	2	2	3	4	2
394	0.0482	BEIJING	-	5	6	-	5	-	6
496	0.0369	BEIJING	4	4	4	4	5	-	4
454	0.0321	CHENGDU	4	4	4	4	4	4	4
536	0.0287	CHENGDU	4	4	3	3	4	4	3
342	0.006	CHENPANDA	4	4	4	4	4	6	4
386	0.0202	CHENPANDA	3	3	2	2	3	4	2
455	0.0474	CHENPANDA	4	4	6	6	4	5	5
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	3	3	4	4	3
573	0.0274	CHENPANDA	2	4	3	3	4	4	2
574	0.0283	CHENPANDA	4	4	3	3	4	4	3
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	2	3	2	2	3	4	2
614	0.0274	CHENPANDA	2	4	3	3	4	4	2
644	0.0418	CHENPANDA	4	4	4	4	4	5	4
649	0.0195	CHENPANDA	3	3	2	2	3	4	2
662	0.0274	CHENPANDA	2	4	3	3	4	4	2
711	0.0154	CHENPANDA	3	4	3	3	4	4	3
717	0.0363	CHENPANDA	4	4	4	4	4	4	4
718	0.0363	CHENPANDA	4	4	4	4	4	4	4
724	0.0161	CHENPANDA	3	3	3	3	4	4	3
726	0.0229	CHENPANDA	2	3	2	2	3	4	2
727	0.0418	CHENPANDA	4	4	4	4	4	5	4
732	0.032	CHENPANDA	4	4	4	3	4	4	4
736	0.0182	CHENPANDA	3	3	2	2	3	4	3
769	0.0272	CHENPANDA	2	4	3	3	4	4	2
770	0.0236	CHENPANDA	2	3	2	2	4	4	2
780	0.0367	CHENPANDA	4	4	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	4	4	4	5	4
825	0.0254	CHENPANDA	2	4	3	3	4	4	2
510	0.0218	CHIANGMAI	2	3	2	4	3	4	4
513	0.0326	CHONGQING	4	4	4	4	4	5	4
648	0.0343	CHONGQING	4	4	4	4	4	4	4
676	0.0343	CHONGQING	4	4	4	4	4	4	4
525	0.0311	FUCHOW	4	6	6	4	6	-	4
532	0.0282	FUCHOW	4	4	4	4	4	4	4
538	0.036	FUCHOW	4	4	4	4	5	6	4
518	0.0307	GUANGZH Z	4	4	4	4	4	5	6
689	0.0199	GUANGZH Z	3	-	2	2	3	4	4
628	0.0423	GUIZHOU W	4	4	4	4	4	5	4
515	0.032	HEFEI W	4	4	4	4	4	4	4
592	0.0269	LANCHOW	2	4	3	3	4	4	2
714	0.0228	LIUGONGDA	2	3	2	4	3	4	2
377	0.0158	LOUGUANTA	3	3	3	3	4	4	3
460	0.0397	LOUGUANTA	-	5	4	4	5	-	4
553	0.0238	LOUGUANTA	2	3	2	2	4	4	2
624	0	LOUGUANTA	56	6	4	4	6	6	44
697	0.0012	LOUGUANTA	6	6	4	4	6	6	4

Males ⇩	MK⇩	Location	596 0.0255 WOLONG	810 0.028 WOLONG	812 0.0213 WOLONG	654 0.021 XIUNING	672 0.03 XIUNING	432 0.0373 YAAN BC	439 0.0235 YAAN BC
703	0	LOUGUANTA	6	6	4	4	6	6	4
753	0.0079	LOUGUANTA	4	4	4	4	4	6	4
802	0	LOUGUANTA	6	6	4	4	6	6	4
803	0	LOUGUANTA	6	6	4	4	6	6	4
520	0.0258	LUOYANG	2	4	3	3	4	4	2
519	0.0264	MADRID Z	2	4	3	3	4	4	2
792	0.0242	MADRID Z	2	2	2	2	4	4	2
793	0.0242	MADRID Z	2	2	2	2	4	4	2
466	0.0202	MEMPHIS	3	3	2	2	3	4	2
399	0.0427	NANCHANG	-	5	4	4	5	-	5
707	0.0356	NINGBO	4	4	4	4	4	5	4
708	0.0356	NINGBO	4	4	4	4	4	5	4
458	0.0348	NZP-WASH	4	-	-	4	-	-	4
609	0.0172	PANYU	4	4	4	4	4	4	4
613	0.0226	PANYU	2	3	2	2	3	4	2
742	0.0284	PANYU	4	-	4	4	4	4	4
744	0.0264	PANYU	4	4	4	4	4	4	4
747	0.022	PANYU	2	3	2	2	3	4	2
750	0.0309	PANYU	4	4	4	4	4	5	4
415	0.0044	SANDIEGOZ	-	4	4	4	6	6	4
749	0.025	SANDIEGOZ	-	4	4	4	4	4	4
357	0.0024	SHANGHAI	4	6	4	4	6	6	4
492	0.0307	SHANGHAI	4	4	4	4	4	-	4
583	0.0362	SHANGHAI	4	4	4	4	4	4	4
745	0.0258	SHANGHAI	4	4	4	4	4	4	4
746	0.0258	SHANGHAI	4	4	4	4	4	4	4
752	0.0129	SHANGHAI	4	4	3	3	6	6	3
588	0.0316	TAIPEI	4	4	4	4	4	4	4
659	0	TAIYUAN	6	6	4	4	6	6	4
589	0.0316	TIANJIN	4	4	4	4	4	4	4
721	0.03	TIANMUHU	4	4	4	4	4	-	4
612	0.0362	TOKYOUENO	4	4	4	4	4	4	4
526	0.019	VIENNA	3	3	2	2	3	4	4
789	0.0272	VIENNA	4	4	4	4	4	4	4
390	0.0243	WAKAYAMA	2	2	2	2	-	4	2
738	0.0305	WAKAYAMA	4	4	3	3	4	4	4
782	0.0305	WAKAYAMA	4	4	3	3	4	4	4
713	0.02	WEIFANG	3	3	2	4	3	4	4
715	0.0257	WEIFANG	2	4	3	3	4	4	2
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	4	4	4	4	4	4
639	0.0297	WENLING S	4	4	4	4	4	5	4
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	4	4	4	4	4
777	0.0122	WOLONG	4	4	3	3	4	6	3
807	0.0222	WOLONG	-	-	4	4	4	4	4
809	0.028	WOLONG	4	-	4	4	4	-	4
607	0.026	WUHAN	4	4	4	4	4	4	4
619	0.0316	WUHAN	4	4	4	4	4	4	4
630	0.043	WUXI	4	4	4	4	4	5	4
646	0.0347	WUXI	4	4	4	4	4	4	4
668	0.0257	XIUNING	4	4	4	4	4	4	4
599	0.0323	XIXIAKOU	4	4	4	4	4	4	4
605	0.0433	XIXIAKOU	4	5	4	4	5	-	5
413	0.0303	YAAN BC	4	4	4	4	4	-	-
424	0.0327	YAAN BC	4	4	4	4	4	4	4
467	0.0305	YAAN BC	4	4	3	3	4	4	4
488	0.0225	YAAN BC	2	3	2	2	-	4	2
502	0.017	YAAN BC	3	-	3	2	4	4	3

2012 MSI Table   **Yellow Hilights are female to be bred and the males they can be bred with**   Page 47 of 66

Males ⇩	MK⇩	Location	596 0.0255 WOLONG	810 0.028 WOLONG	812 0.0213 WOLONG	654 0.021 XIUNING	672 0.03 XIUNING	432 0.0373 YAAN BC	439 0.0235 YAAN BC
		Females ⇒ MK⇒							
503	0.0208	YAAN BC	3	3	2	2	3	4	2
542	0	YAAN BC	6	6	4	4	6	6	4
563	0.0252	YAAN BC	-	4	4	4	4	4	4
564	0.0314	YAAN BC	4	4	4	4	4	-	4
579	0.0009	YAAN BC	6	6	4	4	6	6	4
582	0.0202	YAAN BC	4	-	4	4	4	-	4
586	0.0255	YAAN BC	4	4	4	4	4	4	4
594	0	YAAN BC	6	6	4	4	6	6	4
595	0.0255	YAAN BC	4	4	4	4	4	-	4
621	0.0005	YAAN BC	6	6	4	4	6	6	4
623	0.0051	YAAN BC	4	4	-	4	6	6	4
661	0	YAAN BC	6	6	4	4	6	6	4
674	0.0108	YAAN BC	4	-	3	3	4	6	4
685	0.0272	YAAN BC	4	4	4	4	4	4	4
690	0.0199	YAAN BC	3	-	2	2	3	4	4
719	0.0182	YAAN BC	3	3	2	2	3	4	3
743	0.0131	YAAN BC	4	4	3	4	4	4	3
748	0.0137	YAAN BC	3	4	2	2	6	4	3
756	0.0203	YAAN BC	4	3	2	2	3	4	2
758	0.0217	YAAN BC	2	3	2	2	3	4	4
768	0.0336	YAAN BC	4	4	4	4	4	4	4
772	0.0222	YAAN BC	4	4	4	4	4	4	4
773	0.0356	YAAN BC	4	4	4	4	4	5	4
775	0.0104	YAAN BC	4	6	3	3	4	6	4
778	0.0267	YAAN BC	4	4	4	4	-	4	4
786	0.0294	YAAN BC	4	4	4	4	-	4	4
790	0.0311	YAAN BC	4	4	4	4	-	4	4
798	0.0178	YAAN BC	4	4	-	4	4	4	4
688	0.038	YANTAI	4	4	4	-	4	6	4

Males ⇓	MK⇓	Location	474 0.0214 YAAN BC	477 0.0379 YAAN BC	487 0.0288 YAAN BC	495 0.0208 YAAN BC	505 0.0018 YAAN BC	511 0.0301 YAAN BC	516 0.0367 YAAN BC
		Females ⇒							
327	0.0014	ABERDE HK	4	6	6	4	1	6	6
606	0.0186	ABERDE HK	2	4	3	2	4	3	4
620	0.026	ADELAIDE	3	4	4	4	4	4	4
627	0.0423	ANJI BAMB	4	5	4	4	6	4	5
629	0.043	ANJI BAMB	4	5	4	4	6	4	5
666	0.0363	ANJI BAMB	4	4	4	4	6	4	4
461	0.018	ATLANTA	2	4	3	2	4	3	4
731	0.0195	ATLANTA	4	4	3	2	4	3	4
801	0.0195	ATLANTA	4	4	3	2	4	3	4
394	0.0482	BEIJING	6	-	-	6	6	-	-
496	0.0369	BEIJING	4	-	5	-	6	5	-
454	0.0321	CHENGDU	4	4	4	3	6	4	4
536	0.0287	CHENGDU	4	4	4	3	6	4	4
342	0.006	CHENPANDA	4	6	4	4	1	4	6
386	0.0202	CHENPANDA	2	4	3	2	4	3	4
455	0.0474	CHENPANDA	6	5	4	6	6	4	5
529	0.0327	CHENPANDA	4	4	4	4	6	4	4
540	0.0285	CHENPANDA	4	4	4	3	6	4	4
573	0.0274	CHENPANDA	4	4	4	3	6	4	4
574	0.0283	CHENPANDA	4	4	4	3	6	4	4
575	0.0325	CHENPANDA	4	4	4	4	6	4	4
584	0.0221	CHENPANDA	2	4	3	2	4	3	4
614	0.0274	CHENPANDA	4	4	4	3	6	4	4
644	0.0418	CHENPANDA	4	5	4	4	6	4	5
649	0.0195	CHENPANDA	4	4	3	2	4	3	4
662	0.0274	CHENPANDA	4	4	4	3	6	4	4
711	0.0154	CHENPANDA	3	4	4	3	4	4	4
717	0.0363	CHENPANDA	4	4	4	4	6	4	4
718	0.0363	CHENPANDA	4	4	4	4	6	4	4
724	0.0161	CHENPANDA	3	4	4	3	4	4	4
726	0.0229	CHENPANDA	2	4	3	2	4	3	4
727	0.0418	CHENPANDA	4	5	4	4	6	4	5
732	0.032	CHENPANDA	4	4	4	3	6	4	4
736	0.0182	CHENPANDA	2	4	3	2	4	3	4
769	0.0272	CHENPANDA	4	4	4	3	6	4	4
770	0.0236	CHENPANDA	2	4	3	2	4	4	4
780	0.0367	CHENPANDA	4	4	4	4	6	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	5	4	4	6	4	5
825	0.0254	CHENPANDA	2	4	4	3	4	4	4
510	0.0218	CHIANGMAI	2	4	3	-	4	3	4
513	0.0326	CHONGQING	-	-	4	4	6	-	5
648	0.0343	CHONGQING	4	4	4	4	6	4	4
676	0.0343	CHONGQING	4	4	4	4	6	4	4
525	0.0311	FUCHOW	3	-	4	3	6	-	5
532	0.0282	FUCHOW	3	-	4	3	6	-	4
538	0.036	FUCHOW	4	-	4	-	6	5	6
518	0.0307	GUANGZH Z	3	-	4	4	6	-	5
689	0.0199	GUANGZH Z	2	4	3	-	4	3	4
628	0.0423	GUIZHOU W	4	5	4	4	6	4	5
515	0.032	HEFEI W	4	4	4	3	6	4	4
592	0.0269	LANCHOW	4	4	4	3	6	4	4
714	0.0228	LIUGONGDA	2	4	3	2	4	3	4
377	0.0158	LOUGUANTA	3	4	4	3	4	4	4
460	0.0397	LOUGUANTA	4	-	-	4	6	-	-
553	0.0238	LOUGUANTA	4	4	3	2	4	4	4
624	0	LOUGUANTA	4	6	6	4	1	6	6
697	0.0012	LOUGUANTA	4	6	6	4	1	6	6

Males ⇓	MK⇓	Location	474	477	487	495	505	511	516
	Females ⇒		474	477	487	495	505	511	516
	MK⇒		0.0214	0.0379	0.0288	0.0208	0.0018	0.0301	0.0367
		Location	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC
703	0	LOUGUANTA	4	6	6	4	1	6	6
753	0.0079	LOUGUANTA	4	6	4	4	1	4	6
802	0	LOUGUANTA	4	6	6	4	1	6	6
803	0	LOUGUANTA	4	6	6	4	1	6	6
520	0.0258	LUOYANG	3	4	4	3	4	4	4
519	0.0264	MADRID Z	3	4	4	3	6	4	4
792	0.0242	MADRID Z	2	4	3	2	4	4	4
793	0.0242	MADRID Z	2	4	3	2	4	4	4
466	0.0202	MEMPHIS	2	4	3	2	4	3	4
399	0.0427	NANCHANG	4	-	-	4	6	-	-
707	0.0356	NINGBO	4	4	4	4	6	4	-
708	0.0356	NINGBO	4	4	4	4	6	4	-
458	0.0348	NZP-WASH	4	5	4	4	6	4	-
609	0.0172	PANYU	3	4	4	2	4	-	4
613	0.0226	PANYU	2	4	3	2	4	3	-
742	0.0284	PANYU	3	-	4	4	6	4	4
744	0.0264	PANYU	3	4	4	3	6	-	4
747	0.022	PANYU	-	4	3	2	4	3	4
750	0.0309	PANYU	3	5	4	3	6	4	5
415	0.0044	SANDIEGOZ	4	6	6	4	1	6	6
749	0.025	SANDIEGOZ	2	4	-	3	4	4	4
357	0.0024	SHANGHAI	4	6	6	4	1	6	6
492	0.0307	SHANGHAI	3	5	4	3	6	4	-
583	0.0362	SHANGHAI	4	-	4	4	6	5	4
745	0.0258	SHANGHAI	3	4	4	3	4	4	6
746	0.0258	SHANGHAI	3	4	4	3	4	4	6
752	0.0129	SHANGHAI	3	6	4	2	2	4	4
588	0.0316	TAIPEI	3	4	-	3	6	4	4
659	0	TAIYUAN	4	6	6	4	1	6	6
589	0.0316	TIANJIN	3	4	-	3	6	4	4
721	0.03	TIANMUHU	3	4	4	3	6	4	5
612	0.0362	TOKYOUENO	4	-	4	4	6	5	4
526	0.019	VIENNA	2	-	3	-	4	3	4
789	0.0272	VIENNA	4	-	4	-	6	4	4
390	0.0243	WAKAYAMA	2	4	3	2	4	4	4
738	0.0305	WAKAYAMA	4	4	4	3	6	4	4
782	0.0305	WAKAYAMA	4	4	4	3	6	4	4
713	0.02	WEIFANG	2	4	3	4	4	3	4
715	0.0257	WEIFANG	3	4	4	3	4	4	4
633	0.0323	WENLING S	4	5	4	4	6	-	4
636	0.0303	WENLING S	3	-	4	4	6	4	4
639	0.0297	WENLING S	3	4	4	3	6	4	-
530	0.0327	WENZHOU	4	4	4	4	6	4	4
670	0.0368	WENZHOU	4	4	4	4	6	4	4
777	0.0122	WOLONG	3	6	4	3	2	4	6
807	0.0222	WOLONG	2	4	4	2	4	4	4
809	0.028	WOLONG	3	4	4	3	6	4	4
607	0.026	WUHAN	3	4	4	3	4	4	-
619	0.0316	WUHAN	3	4	-	3	6	4	4
630	0.043	WUXI	4	5	4	4	6	4	5
646	0.0347	WUXI	4	4	4	4	6	4	4
668	0.0257	XIUNING	3	4	-	3	4	4	4
599	0.0323	XIXIAKOU	-	4	4	4	6	4	4
605	0.0433	XIXIAKOU	4	5	4	4	6	4	6
413	0.0303	YAAN BC	3	5	4	3	6	4	-
424	0.0327	YAAN BC	4	4	4	4	6	4	4
467	0.0305	YAAN BC	3	4	4	3	6	4	4
488	0.0225	YAAN BC	2	4	3	2	4	3	4
502	0.017	YAAN BC	3	4	3	2	4	4	4

Males ⇩	MK⇩	Location	Females ⇨ 474	477	487	495	505	511	516
		MK⇨	0.0214	0.0379	0.0288	0.0208	0.0018	0.0301	0.0367
		Location	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC
503	0.0208	YAAN BC	2	4	3	2	4	3	4
542	0	YAAN BC	4	6	6	4	1	6	6
563	0.0252	YAAN BC	2	4	-	3	4	4	4
564	0.0314	YAAN BC	3	5	4	3	6	-	-
579	0.0009	YAAN BC	4	6	6	4	1	6	6
582	0.0202	YAAN BC	2	4	4	2	4	4	4
586	0.0255	YAAN BC	3	4	4	3	4	-	4
594	0	YAAN BC	4	6	6	4	1	6	6
595	0.0255	YAAN BC	4	4	4	3	4	4	4
621	0.0005	YAAN BC	4	6	6	4	1	6	6
623	0.0051	YAAN BC	4	6	4	4	1	6	6
661	0	YAAN BC	4	6	6	4	1	6	6
674	0.0108	YAAN BC	3	6	4	3	2	4	6
685	0.0272	YAAN BC	4	-	4	-	6	4	4
690	0.0199	YAAN BC	2	4	3	-	4	3	4
719	0.0182	YAAN BC	2	4	3	2	4	3	4
743	0.0131	YAAN BC	3	6	4	2	2	4	4
748	0.0137	YAAN BC	2	6	4	2	2	4	4
756	0.0203	YAAN BC	-	4	4	2	4	4	4
758	0.0217	YAAN BC	2	4	3	-	4	3	4
768	0.0336	YAAN BC	4	4	4	4	6	4	6
772	0.0222	YAAN BC	2	6	4	4	4	4	4
773	0.0356	YAAN BC	4	4	4	4	6	4	-
775	0.0104	YAAN BC	3	6	4	3	2	4	6
778	0.0267	YAAN BC	3	4	4	3	6	4	6
786	0.0294	YAAN BC	4	4	4	3	6	4	4
790	0.0311	YAAN BC	3	-	4	4	6	4	4
798	0.0178	YAAN BC	2	4	-	2	4	4	4
688	0.038	YANTAI	4	6	5	4	6	6	-

Males ⇩	MK⇩	Location	544	547	557	568	569	571	572
Females ⇨	MK⇨		0.0028	0.0344	0.0311	0.0289	0.0175	0.0367	0.0216
		Location	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC
327	0.0014	ABERDE HK	1	6	6	6	4	6	4
606	0.0186	ABERDE HK	-	4	4	3	2	-	2
620	0.026	ADELAIDE	4	4	4	4	3	4	3
627	0.0423	ANJI BAMB	6	4	4	4	6	5	4
629	0.043	ANJI BAMB	6	4	4	4	6	5	4
666	0.0363	ANJI BAMB	6	4	4	4	4	5	4
461	0.018	ATLANTA	4	4	4	3	2	4	2
731	0.0195	ATLANTA	4	4	3	3	2	4	2
801	0.0195	ATLANTA	4	4	3	3	2	4	2
394	0.0482	BEIJING	6	-	6	-	6	-	-
496	0.0369	BEIJING	6	6	-	5	4	6	6
454	0.0321	CHENGDU	6	4	4	4	4	4	4
536	0.0287	CHENGDU	6	4	4	4	3	4	3
342	0.006	CHENPANDA	1	6	6	4	3	6	4
386	0.0202	CHENPANDA	4	4	3	3	2	4	2
455	0.0474	CHENPANDA	6	5	5	4	6	5	6
529	0.0327	CHENPANDA	6	4	4	4	4	4	4
540	0.0285	CHENPANDA	6	4	4	4	6	4	3
573	0.0274	CHENPANDA	6	4	4	4	6	4	3
574	0.0283	CHENPANDA	6	4	4	4	6	4	3
575	0.0325	CHENPANDA	6	4	4	4	4	4	4
584	0.0221	CHENPANDA	4	4	4	3	3	4	2
614	0.0274	CHENPANDA	6	4	4	4	6	4	3
644	0.0418	CHENPANDA	6	4	4	4	6	4	4
649	0.0195	CHENPANDA	4	4	3	3	2	4	2
662	0.0274	CHENPANDA	6	4	4	4	6	4	3
711	0.0154	CHENPANDA	4	4	4	4	1	4	3
717	0.0363	CHENPANDA	6	4	4	4	4	5	4
718	0.0363	CHENPANDA	6	4	4	4	4	5	4
724	0.0161	CHENPANDA	4	4	4	4	1	4	3
726	0.0229	CHENPANDA	4	4	4	3	3	4	2
727	0.0418	CHENPANDA	6	4	4	4	6	4	4
732	0.032	CHENPANDA	6	4	4	4	4	4	4
736	0.0182	CHENPANDA	4	4	4	3	2	4	2
769	0.0272	CHENPANDA	6	4	4	4	3	4	3
770	0.0236	CHENPANDA	4	4	4	3	3	4	2
780	0.0367	CHENPANDA	6	4	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	4	4	4	6	5	4
825	0.0254	CHENPANDA	4	4	4	4	4	4	2
510	0.0218	CHIANGMAI	4	4	3	3	3	4	2
513	0.0326	CHONGQING	6	-	4	4	4	5	4
648	0.0343	CHONGQING	6	4	4	4	4	-	4
676	0.0343	CHONGQING	6	4	4	4	4	-	4
525	0.0311	FUCHOW	6	6	4	4	4	5	4
532	0.0282	FUCHOW	6	6	4	4	3	4	4
538	0.036	FUCHOW	6	6	-	4	4	6	6
518	0.0307	GUANGZH Z	6	6	4	4	4	5	4
689	0.0199	GUANGZH Z	4	4	4	3	2	4	4
628	0.0423	GUIZHOU W	6	4	4	4	6	5	4
515	0.032	HEFEI W	6	4	4	4	4	4	4
592	0.0269	LANCHOW	4	4	4	4	3	4	3
714	0.0228	LIUGONGDA	4	4	4	3	3	4	2
377	0.0158	LOUGUANTA	4	4	4	4	1	4	3
460	0.0397	LOUGUANTA	6	6	6	-	4	5	4
553	0.0238	LOUGUANTA	4	4	4	3	6	4	2
624	0	LOUGUANTA	1	6	6	6	4	6	4
697	0.0012	LOUGUANTA	1	6	6	6	4	6	4

Males ⇓	MK⇓	Location	544 0.0028 YAAN BC	547 0.0344 YAAN BC	557 0.0311 YAAN BC	568 0.0289 YAAN BC	569 0.0175 YAAN BC	571 0.0367 YAAN BC	572 0.0216 YAAN BC
703	0	LOUGUANTA	1	6	6	6	4	6	4
753	0.0079	LOUGUANTA	1	6	4	4	3	6	4
802	0	LOUGUANTA	1	6	6	6	4	6	4
803	0	LOUGUANTA	1	6	6	6	4	6	4
520	0.0258	LUOYANG	4	4	4	4	3	4	3
519	0.0264	MADRID Z	4	4	4	4	3	4	3
792	0.0242	MADRID Z	4	4	4	4	3	4	2
793	0.0242	MADRID Z	4	4	4	4	3	4	2
466	0.0202	MEMPHIS	4	4	3	3	2	-	2
399	0.0427	NANCHANG	6	6	-	-	6	5	4
707	0.0356	NINGBO	6	4	4	6	4	-	4
708	0.0356	NINGBO	6	4	4	6	4	-	4
458	0.0348	NZP-WASH	6	6	5	4	4	4	4
609	0.0172	PANYU	4	4	4	4	1	4	-
613	0.0226	PANYU	4	4	4	-	3	-	2
742	0.0284	PANYU	6	4	6	4	3	-	-
744	0.0264	PANYU	4	4	4	4	3	4	4
747	0.022	PANYU	4	4	4	3	3	4	2
750	0.0309	PANYU	6	4	6	-	-	4	4
415	0.0044	SANDIEGOZ	1	6	6	6	4	6	4
749	0.025	SANDIEGOZ	4	4	4	4	3	4	4
357	0.0024	SHANGHAI	1	6	6	6	4	6	-
492	0.0307	SHANGHAI	6	6	4	4	4	4	4
583	0.0362	SHANGHAI	6	4	6	4	4	-	-
745	0.0258	SHANGHAI	4	4	4	-	3	4	4
746	0.0258	SHANGHAI	4	4	4	-	3	4	4
752	0.0129	SHANGHAI	2	4	4	4	6	4	3
588	0.0316	TAIPEI	6	4	4	4	4	-	4
659	0	TAIYUAN	1	6	6	6	4	6	4
589	0.0316	TIANJIN	6	4	4	4	4	-	4
721	0.03	TIANMUHU	6	4	4	4	4	4	4
612	0.0362	TOKYOUENO	6	4	6	4	4	-	-
526	0.019	VIENNA	4	4	-	3	2	4	4
789	0.0272	VIENNA	6	6	6	4	3	4	4
390	0.0243	WAKAYAMA	4	4	4	4	-	4	2
738	0.0305	WAKAYAMA	6	4	4	4	6	4	3
782	0.0305	WAKAYAMA	6	4	4	4	6	4	3
713	0.02	WEIFANG	4	4	3	3	2	4	2
715	0.0257	WEIFANG	4	4	4	4	3	4	3
633	0.0323	WENLING S	6	4	4	4	4	-	4
636	0.0303	WENLING S	6	4	6	4	4	-	-
639	0.0297	WENLING S	6	4	4	6	4	4	4
530	0.0327	WENZHOU	6	4	4	4	4	4	4
670	0.0368	WENZHOU	6	4	4	4	4	4	4
777	0.0122	WOLONG	2	4	4	4	2	6	3
807	0.0222	WOLONG	4	4	4	4	3	4	4
809	0.028	WOLONG	6	4	4	4	3	4	4
607	0.026	WUHAN	4	4	4	6	-	4	4
619	0.0316	WUHAN	6	4	4	4	4	-	4
630	0.043	WUXI	6	4	4	4	6	5	4
646	0.0347	WUXI	6	4	4	4	4	4	4
668	0.0257	XIUNING	4	4	4	4	3	4	4
599	0.0323	XIXIAKOU	6	-	4	4	4	4	4
605	0.0433	XIXIAKOU	6	5	4	4	6	5	4
413	0.0303	YAAN BC	6	6	4	4	4	4	4
424	0.0327	YAAN BC	6	4	4	4	4	-	4
467	0.0305	YAAN BC	6	4	4	4	4	4	3
488	0.0225	YAAN BC	54	4	54	3	-	4	2
502	0.017	YAAN BC	4	4	4	3	1	4	3

2012 MSI Table

Yellow Hilights are female to be bred and the males they can be bred with

Males ⇓	MK⇓	Location	544 0.0028 YAAN BC	547 0.0344 YAAN BC	557 0.0311 YAAN BC	568 0.0289 YAAN BC	569 0.0175 YAAN BC	571 0.0367 YAAN BC	572 0.0216 YAAN BC
503	0.0208	YAAN BC	4	4	3	3	2	4	2
542	0	YAAN BC	1	6	6	6	4	6	4
563	0.0252	YAAN BC	4	4	4	4	3	4	4
564	0.0314	YAAN BC	6	6	4	4	4	4	4
579	0.0009	YAAN BC	1	6	6	6	4	6	4
582	0.0202	YAAN BC	4	4	4	4	2	4	4
586	0.0255	YAAN BC	4	4	6	-	3	4	4
594	0	YAAN BC	1	6	6	6	4	6	4
595	0.0255	YAAN BC	4	4	4	4	3	4	4
621	0.0005	YAAN BC	1	6	6	6	4	6	4
623	0.0051	YAAN BC	1	6	6	4	4	6	4
661	0	YAAN BC	1	6	6	6	4	6	4
674	0.0108	YAAN BC	-	4	4	4	2	6	3
685	0.0272	YAAN BC	6	6	6	4	3	4	4
690	0.0199	YAAN BC	4	4	4	3	2	4	4
719	0.0182	YAAN BC	4	4	4	3	2	-	2
743	0.0131	YAAN BC	2	4	4	4	2	4	3
748	0.0137	YAAN BC	-	4	4	4	6	4	2
756	0.0203	YAAN BC	4	-	4	4	2	4	2
758	0.0217	YAAN BC	4	4	4	3	3	4	4
768	0.0336	YAAN BC	6	4	4	6	4	-	4
772	0.0222	YAAN BC	4	4	-	4	3	4	4
773	0.0356	YAAN BC	6	4	4	6	4	-	4
775	0.0104	YAAN BC	1	4	4	4	2	6	3
778	0.0267	YAAN BC	4	4	4	-	6	4	4
786	0.0294	YAAN BC	6	-	4	4	6	4	4
790	0.0311	YAAN BC	6	4	6	4	6	-	-
798	0.0178	YAAN BC	4	4	4	4	1	4	4
688	0.038	YANTAI	6	6	5	-	4	4	4

Males ⇩	MK⇩	Location	Females ⇨ 611 MK⇨ 0.0362 YAAN BC	625 0.0277 YAAN BC	656 0.0009 YAAN BC	664 0.0291 YAAN BC	692 0.0201 YAAN BC	694 0.025 YAAN BC	696 0 YAAN BC
327	0.0014	ABERDE HK	6	6	1	6	4	4	1
606	0.0186	ABERDE HK	-	3	4	3	2	3	4
620	0.026	ADELAIDE	4	4	6	4	3	4	6
627	0.0423	ANJI BAMB	4	6	6	4	4	4	6
629	0.043	ANJI BAMB	5	6	6	4	4	4	6
666	0.0363	ANJI BAMB	5	4	6	4	4	4	6
461	0.018	ATLANTA	4	4	4	3	2	3	4
731	0.0195	ATLANTA	4	3	4	3	4	3	4
801	0.0195	ATLANTA	4	3	4	3	4	3	4
394	0.0482	BEIJING	-	4	6	-	6	-	6
496	0.0369	BEIJING	6	4	6	4	4	4	6
454	0.0321	CHENGDU	4	6	6	4	3	4	6
536	0.0287	CHENGDU	4	4	6	4	4	4	6
342	0.006	CHENPANDA	6	4	1	4	4	4	1
386	0.0202	CHENPANDA	4	3	4	3	2	3	4
455	0.0474	CHENPANDA	5	-	6	5	6	4	6
529	0.0327	CHENPANDA	4	4	6	4	4	4	6
540	0.0285	CHENPANDA	4	4	6	4	4	4	6
573	0.0274	CHENPANDA	4	4	6	4	4	2	6
574	0.0283	CHENPANDA	4	4	6	4	4	4	6
575	0.0325	CHENPANDA	4	6	6	4	4	4	6
584	0.0221	CHENPANDA	4	3	4	3	2	2	4
614	0.0274	CHENPANDA	4	4	6	4	4	2	6
644	0.0418	CHENPANDA	4	6	6	4	4	4	6
649	0.0195	CHENPANDA	4	3	4	3	4	3	4
662	0.0274	CHENPANDA	4	4	6	4	4	2	6
711	0.0154	CHENPANDA	4	4	4	4	3	3	4
717	0.0363	CHENPANDA	5	4	6	4	4	4	6
718	0.0363	CHENPANDA	5	4	6	4	4	4	6
724	0.0161	CHENPANDA	4	4	4	4	2	3	4
726	0.0229	CHENPANDA	4	4	4	3	2	2	4
727	0.0418	CHENPANDA	4	6	6	4	4	4	6
732	0.032	CHENPANDA	4	4	6	4	4	4	6
736	0.0182	CHENPANDA	4	3	4	3	2	3	4
769	0.0272	CHENPANDA	4	4	6	4	4	2	6
770	0.0236	CHENPANDA	4	4	4	3	2	2	4
780	0.0367	CHENPANDA	4	4	6	4	4	4	6
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	5	6	6	4	4	4	6
825	0.0254	CHENPANDA	4	4	6	4	3	2	6
510	0.0218	CHIANGMAI	4	-	4	4	2	2	4
513	0.0326	CHONGQING	5	4	6	4	4	4	6
648	0.0343	CHONGQING	-	4	6	4	4	4	6
676	0.0343	CHONGQING	-	4	6	4	4	4	6
525	0.0311	FUCHOW	5	4	6	4	3	4	6
532	0.0282	FUCHOW	4	4	6	4	3	4	6
538	0.036	FUCHOW	6	4	6	4	4	4	6
518	0.0307	GUANGZH Z	5	4	6	4	3	4	6
689	0.0199	GUANGZH Z	4	3	4	3	-	3	4
628	0.0423	GUIZHOU W	4	6	6	4	4	4	6
515	0.032	HEFEI W	4	6	6	4	3	4	6
592	0.0269	LANCHOW	4	-	6	4	4	2	6
714	0.0228	LIUGONGDA	4	-	4	4	2	2	4
377	0.0158	LOUGUANTA	4	3	4	4	3	3	4
460	0.0397	LOUGUANTA	5	4	6	5	4	-	6
553	0.0238	LOUGUANTA	4	2	4	4	4	2	4
624	0	LOUGUANTA	6	65	1	6	4	6	1
697	0.0012	LOUGUANTA	6	6	1	6	4	4	1

Males ⇩	MK⇩	Location	611 0.0362 YAAN BC	625 0.0277 YAAN BC	656 0.0009 YAAN BC	664 0.0291 YAAN BC	692 0.0201 YAAN BC	694 0.025 YAAN BC	696 0 YAAN BC
703	0	LOUGUANTA	6	6	1	6	4	6	1
753	0.0079	LOUGUANTA	6	4	1	4	4	4	1
802	0	LOUGUANTA	6	6	1	6	4	6	1
803	0	LOUGUANTA	6	6	1	6	4	6	1
520	0.0258	LUOYANG	4	4	6	4	3	2	6
519	0.0264	MADRID Z	4	4	6	4	3	2	6
792	0.0242	MADRID Z	4	4	4	4	3	2	6
793	0.0242	MADRID Z	4	4	4	4	3	2	6
466	0.0202	MEMPHIS	-	3	4	3	2	3	4
399	0.0427	NANCHANG	5	4	6	5	4	-	6
707	0.0356	NINGBO	-	4	6	4	4	4	6
708	0.0356	NINGBO	-	4	6	4	4	4	6
458	0.0348	NZP-WASH	4	4	6	4	4	4	6
609	0.0172	PANYU	4	3	4	4	2	4	4
613	0.0226	PANYU	-	3	4	3	2	2	4
742	0.0284	PANYU	-	4	6	4	-	4	6
744	0.0264	PANYU	4	4	6	4	3	4	6
747	0.022	PANYU	4	3	4	3	-	2	4
750	0.0309	PANYU	4	4	6	4	3	4	6
415	0.0044	SANDIEGOZ	6	4	1	6	4	-	1
749	0.025	SANDIEGOZ	4	2	4	4	3	-	6
357	0.0024	SHANGHAI	6	6	1	6	4	4	1
492	0.0307	SHANGHAI	4	4	6	4	3	4	6
583	0.0362	SHANGHAI	-	4	6	4	4	4	6
745	0.0258	SHANGHAI	4	4	6	4	3	4	6
746	0.0258	SHANGHAI	4	4	6	4	3	4	6
752	0.0129	SHANGHAI	4	4	-	4	2	3	4
588	0.0316	TAIPEI	-	4	6	4	3	4	6
659	0	TAIYUAN	6	6	1	6	4	6	1
589	0.0316	TIANJIN	-	4	6	4	3	4	6
721	0.03	TIANMUHU	4	4	6	4	3	4	6
612	0.0362	TOKYOUENO	-	4	6	4	4	4	6
526	0.019	VIENNA	4	3	4	3	2	3	4
789	0.0272	VIENNA	4	4	6	4	4	4	6
390	0.0243	WAKAYAMA	4	2	4	-	3	2	6
738	0.0305	WAKAYAMA	4	4	6	4	4	4	6
782	0.0305	WAKAYAMA	4	4	6	4	4	4	6
713	0.02	WEIFANG	4	4	4	4	2	3	4
715	0.0257	WEIFANG	4	4	6	4	3	2	6
633	0.0323	WENLING S	-	4	6	4	3	4	6
636	0.0303	WENLING S	-	4	6	4	3	4	6
639	0.0297	WENLING S	4	4	6	4	3	4	6
530	0.0327	WENZHOU	4	4	6	4	4	4	6
670	0.0368	WENZHOU	4	6	6	4	4	4	6
777	0.0122	WOLONG	4	4	2	4	2	4	4
807	0.0222	WOLONG	4	3	4	4	-	-	4
809	0.028	WOLONG	4	4	6	4	-	4	6
607	0.026	WUHAN	4	4	6	4	3	4	6
619	0.0316	WUHAN	-	4	6	4	3	4	6
630	0.043	WUXI	5	6	6	4	4	4	6
646	0.0347	WUXI	4	4	6	4	4	4	6
668	0.0257	XIUNING	4	4	6	4	3	4	6
599	0.0323	XIXIAKOU	4	4	6	4	4	4	6
605	0.0433	XIXIAKOU	5	5	6	5	4	4	6
413	0.0303	YAAN BC	4	4	6	4	3	4	6
424	0.0327	YAAN BC	-	4	6	4	4	4	6
467	0.0305	YAAN BC	4	-	6	4	3	4	6
488	0.0225	YAAN BC	4	3	4	-	2	2	4
502	0.017	YAAN BC	4	3	4	3	-	3	4

2012 MSI Table   **Yellow Hilights are female to be bred and the males they can be bred with**   Page 56 of 66

Males ⇩	MK⇩	Location	611	625	656	664	692	694	696
		Females ⇨							
		MK⇨	0.0362	0.0277	0.0009	0.0291	0.0201	0.025	0
		Location	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC	YAAN BC
503	0.0208	YAAN BC	4	3	4	3	2	3	4
542	0	YAAN BC	6	6	1	6	4	6	1
563	0.0252	YAAN BC	4	2	6	4	3	-	6
564	0.0314	YAAN BC	4	4	6	4	3	4	6
579	0.0009	YAAN BC	6	6	1	6	4	4	1
582	0.0202	YAAN BC	4	3	4	4	2	4	4
586	0.0255	YAAN BC	4	4	6	4	3	4	6
594	0	YAAN BC	6	6	1	6	4	6	1
595	0.0255	YAAN BC	4	4	6	4	4	4	6
621	0.0005	YAAN BC	6	6	1	6	4	6	1
623	0.0051	YAAN BC	6	4	1	4	4	4	1
661	0	YAAN BC	6	6	1	6	4	6	1
674	0.0108	YAAN BC	6	4	2	4	-	4	2
685	0.0272	YAAN BC	4	4	6	4	4	4	6
690	0.0199	YAAN BC	4	3	4	3	-	3	4
719	0.0182	YAAN BC	-	3	4	3	2	3	4
743	0.0131	YAAN BC	4	-	4	4	2	3	4
748	0.0137	YAAN BC	4	4	4	4	2	3	4
756	0.0203	YAAN BC	4	3	4	3	4	4	4
758	0.0217	YAAN BC	4	3	4	3	2	2	4
768	0.0336	YAAN BC	-	4	6	4	4	4	6
772	0.0222	YAAN BC	4	3	4	4	4	4	4
773	0.0356	YAAN BC	-	4	6	4	4	4	6
775	0.0104	YAAN BC	6	4	2	4	6	4	2
778	0.0267	YAAN BC	4	4	6	4	3	4	6
786	0.0294	YAAN BC	4	4	6	4	4	4	6
790	0.0311	YAAN BC	-	4	6	6	3	4	6
798	0.0178	YAAN BC	4	3	4	4	2	4	4
688	0.038	YANTAI	4	5	6	-	4	4	6

Males ⇩	MK⇩	Location	698 0.0018 YAAN BC	701 0 YAAN BC	702 0 YAAN BC	704 0.0314 YAAN BC	755 0.021 YAAN BC	759 0.0231 YAAN BC	760 0.0231 YAAN BC
		Females ⇨ **MK⇨**							
327	0.0014	ABERDE HK	1	1	1	6	4	4	4
606	0.0186	ABERDE HK	4	4	4	4	2	3	3
620	0.026	ADELAIDE	4	6	6	4	3	4	4
627	0.0423	ANJI BAMB	6	6	6	5	4	4	4
629	0.043	ANJI BAMB	6	6	6	5	4	4	4
666	0.0363	ANJI BAMB	6	6	6	5	4	4	4
461	0.018	ATLANTA	4	4	4	4	2	3	3
731	0.0195	ATLANTA	4	4	4	3	2	2	2
801	0.0195	ATLANTA	4	4	4	3	2	2	2
394	0.0482	BEIJING	6	6	6	-	6	6	6
496	0.0369	BEIJING	6	6	6	5	4	4	4
454	0.0321	CHENGDU	6	6	6	4	3	4	4
536	0.0287	CHENGDU	6	6	6	4	3	3	3
342	0.006	CHENPANDA	1	1	1	6	4	4	4
386	0.0202	CHENPANDA	4	4	4	3	2	2	2
455	0.0474	CHENPANDA	6	6	6	6	6	6	6
529	0.0327	CHENPANDA	6	6	6	4	4	4	4
540	0.0285	CHENPANDA	6	6	6	4	3	3	3
573	0.0274	CHENPANDA	6	6	6	4	3	3	3
574	0.0283	CHENPANDA	6	6	6	4	3	3	3
575	0.0325	CHENPANDA	6	6	6	4	4	4	4
584	0.0221	CHENPANDA	4	4	4	4	2	2	2
614	0.0274	CHENPANDA	6	6	6	4	3	3	3
644	0.0418	CHENPANDA	6	6	6	5	4	4	4
649	0.0195	CHENPANDA	4	4	4	3	2	2	2
662	0.0274	CHENPANDA	6	6	6	4	3	3	3
711	0.0154	CHENPANDA	4	4	4	4	3	3	3
717	0.0363	CHENPANDA	6	6	6	5	4	4	4
718	0.0363	CHENPANDA	6	6	6	5	4	4	4
724	0.0161	CHENPANDA	4	4	4	4	3	3	3
726	0.0229	CHENPANDA	4	4	4	4	2	2	2
727	0.0418	CHENPANDA	6	6	6	5	4	4	4
732	0.032	CHENPANDA	6	6	6	4	3	4	4
736	0.0182	CHENPANDA	4	4	4	4	2	3	3
769	0.0272	CHENPANDA	6	6	6	4	3	3	3
770	0.0236	CHENPANDA	4	4	4	4	2	2	2
780	0.0367	CHENPANDA	6	6	6	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	6	6	5	4	4	4
825	0.0254	CHENPANDA	4	6	6	4	3	2	2
510	0.0218	CHIANGMAI	4	4	4	6	2	4	4
513	0.0326	CHONGQING	6	6	6	4	4	4	4
648	0.0343	CHONGQING	6	6	6	4	4	4	4
676	0.0343	CHONGQING	6	6	6	4	4	4	4
525	0.0311	FUCHOW	6	6	6	4	4	4	4
532	0.0282	FUCHOW	6	6	6	4	4	4	4
538	0.036	FUCHOW	6	6	6	5	4	4	4
518	0.0307	GUANGZH Z	6	6	6	6	4	4	4
689	0.0199	GUANGZH Z	4	4	4	4	4	4	4
628	0.0423	GUIZHOU W	6	6	6	5	4	4	4
515	0.032	HEFEI W	6	6	6	4	3	4	4
592	0.0269	LANCHOW	6	6	6	4	3	2	2
714	0.0228	LIUGONGDA	4	4	4	4	4	-	-
377	0.0158	LOUGUANTA	4	4	4	4	3	3	3
460	0.0397	LOUGUANTA	6	6	6	6	4	4	4
553	0.0238	LOUGUANTA	4	4	4	4	2	2	2
624	0	LOUGUANTA	1	1	1	6	4	4	4
697	0.0012	LOUGUANTA	1	1	1	6	4	4	4

Males ⇩	MK⇩	Location	698 0.0018 YAAN BC	701 0 YAAN BC	702 0 YAAN BC	704 0.0314 YAAN BC	755 0.021 YAAN BC	759 0.0231 YAAN BC	760 0.0231 YAAN BC
703	0	LOUGUANTA	1	1	1	6	4	4	4
753	0.0079	LOUGUANTA	1	1	1	4	4	4	4
802	0	LOUGUANTA	1	1	1	6	4	4	4
803	0	LOUGUANTA	1	1	1	6	4	4	4
520	0.0258	LUOYANG	4	6	6	4	3	2	2
519	0.0264	MADRID Z	6	6	6	4	3	2	2
792	0.0242	MADRID Z	4	6	6	4	2	2	2
793	0.0242	MADRID Z	4	6	6	4	2	2	2
466	0.0202	MEMPHIS	4	4	4	3	2	2	2
399	0.0427	NANCHANG	6	6	6	6	4	4	4
707	0.0356	NINGBO	6	6	6	4	4	4	4
708	0.0356	NINGBO	6	6	6	4	4	4	4
458	0.0348	NZP-WASH	6	6	6	5	4	4	4
609	0.0172	PANYU	4	4	4	4	2	3	3
613	0.0226	PANYU	4	4	4	4	2	2	2
742	0.0284	PANYU	6	6	6	4	4	3	3
744	0.0264	PANYU	6	6	6	4	4	-	-
747	0.022	PANYU	4	4	4	4	4	-	-
750	0.0309	PANYU	6	6	6	4	4	4	4
415	0.0044	SANDIEGOZ	1	1	1	6	4	4	4
749	0.025	SANDIEGOZ	4	6	6	4	4	4	4
357	0.0024	SHANGHAI	1	1	1	6	4	4	4
492	0.0307	SHANGHAI	6	6	6	4	4	4	4
583	0.0362	SHANGHAI	6	6	6	4	4	4	4
745	0.0258	SHANGHAI	4	6	6	4	4	-	-
746	0.0258	SHANGHAI	4	6	6	4	4	-	-
752	0.0129	SHANGHAI	2	4	4	4	2	3	3
588	0.0316	TAIPEI	6	6	6	4	3	4	4
659	0	TAIYUAN	1	1	1	6	4	4	4
589	0.0316	TIANJIN	6	6	6	4	3	4	4
721	0.03	TIANMUHU	6	6	6	4	-	-	-
612	0.0362	TOKYOUENO	6	6	6	4	4	4	4
526	0.019	VIENNA	4	4	4	4	2	4	4
789	0.0272	VIENNA	6	6	6	4	3	4	4
390	0.0243	WAKAYAMA	4	6	6	4	2	2	2
738	0.0305	WAKAYAMA	6	6	6	4	3	4	4
782	0.0305	WAKAYAMA	6	6	6	4	3	4	4
713	0.02	WEIFANG	4	4	4	4	2	4	4
715	0.0257	WEIFANG	4	6	6	4	3	2	2
633	0.0323	WENLING S	6	6	6	4	4	4	4
636	0.0303	WENLING S	6	6	6	4	4	-	-
639	0.0297	WENLING S	6	6	6	4	4	-	-
530	0.0327	WENZHOU	6	6	6	4	4	4	4
670	0.0368	WENZHOU	6	6	6	5	4	4	4
777	0.0122	WOLONG	2	4	4	4	4	-	-
807	0.0222	WOLONG	4	4	4	4	4	2	2
809	0.028	WOLONG	6	6	6	4	6	4	4
607	0.026	WUHAN	4	6	6	4	4	4	4
619	0.0316	WUHAN	6	6	6	4	3	4	4
630	0.043	WUXI	6	6	6	5	4	4	4
646	0.0347	WUXI	6	6	6	5	4	4	4
668	0.0257	XIUNING	4	6	6	4	4	-	-
599	0.0323	XIXIAKOU	6	6	6	4	4	4	4
605	0.0433	XIXIAKOU	6	6	6	5	4	4	4
413	0.0303	YAAN BC	6	6	6	6	4	6	6
424	0.0327	YAAN BC	6	6	6	4	4	4	4
467	0.0305	YAAN BC	6	6	6	4	3	4	4
488	0.0225	YAAN BC	4	4	4	4	2	2	2
502	0.017	YAAN BC	4	4	4	4	-	3	3

Males ⇓	MK⇓	Females ⇒ MK⇒ Location	698 0.0018 YAAN BC	701 0 YAAN BC	702 0 YAAN BC	704 0.0314 YAAN BC	755 0.021 YAAN BC	759 0.0231 YAAN BC	760 0.0231 YAAN BC
503	0.0208	YAAN BC	4	4	4	3	-	-	-
542	0	YAAN BC	1	1	1	6	4	4	4
563	0.0252	YAAN BC	4	6	6	4	4	4	4
564	0.0314	YAAN BC	6	6	6	4	4	4	4
579	0.0009	YAAN BC	1	1	1	6	4	4	4
582	0.0202	YAAN BC	4	4	4	4	4	4	4
586	0.0255	YAAN BC	4	6	6	4	4	4	4
594	0	YAAN BC	1	1	1	6	4	4	4
595	0.0255	YAAN BC	4	6	6	4	4	4	4
621	0.0005	YAAN BC	1	1	1	6	4	4	4
623	0.0051	YAAN BC	1	1	1	6	4	4	4
661	0	YAAN BC	1	1	1	6	4	4	4
674	0.0108	YAAN BC	2	2	2	4	4	4	4
685	0.0272	YAAN BC	6	6	6	4	3	4	4
690	0.0199	YAAN BC	4	4	4	4	4	4	4
719	0.0182	YAAN BC	4	4	4	4	2	3	3
743	0.0131	YAAN BC	2	4	4	4	2	3	3
748	0.0137	YAAN BC	2	4	4	4	2	3	3
756	0.0203	YAAN BC	4	4	4	3	4	4	4
758	0.0217	YAAN BC	4	4	4	4	4	-	-
768	0.0336	YAAN BC	6	6	6	4	4	4	4
772	0.0222	YAAN BC	4	4	4	4	4	2	2
773	0.0356	YAAN BC	6	6	6	4	4	4	4
775	0.0104	YAAN BC	-	2	2	4	4	4	4
778	0.0267	YAAN BC	6	6	6	4	3	2	2
786	0.0294	YAAN BC	6	6	6	4	3	3	3
790	0.0311	YAAN BC	6	6	6	4	3	4	4
798	0.0178	YAAN BC	4	4	4	4	2	3	3
688	0.038	YANTAI	6	6	6	-	4	4	4

Males ⇩	MK⇩	Females ⇨ MK⇨ Location	771 0.0222 YAAN BC	774 0.03 YAAN BC	776 0.0104 YAAN BC	781 0.0289 YAAN BC	791 0.0122 YAAN BC	794 0.0199 YAAN BC	800 0.022 YAAN BC
327	0.0014	ABERDE HK	4	6	2	6	2	4	4
606	0.0186	ABERDE HK	2	3	3	4	2	2	2
620	0.026	ADELAIDE	2	4	4	4	4	4	2
627	0.0423	ANJI BAMB	4	4	6	4	6	4	4
629	0.043	ANJI BAMB	4	4	6	4	6	4	4
666	0.0363	ANJI BAMB	4	4	6	4	4	4	4
461	0.018	ATLANTA	3	3	2	3	2	2	2
731	0.0195	ATLANTA	2	3	3	3	2	2	4
801	0.0195	ATLANTA	2	3	3	3	2	2	4
394	0.0482	BEIJING	6	5	6	5	6	6	6
496	0.0369	BEIJING	6	5	6	4	6	4	4
454	0.0321	CHENGDU	4	4	4	4	4	3	4
536	0.0287	CHENGDU	3	4	4	4	4	3	4
342	0.006	CHENPANDA	4	4	1	4	2	4	4
386	0.0202	CHENPANDA	2	3	3	3	2	2	2
455	0.0474	CHENPANDA	6	4	6	4	6	6	6
529	0.0327	CHENPANDA	4	4	4	4	4	4	4
540	0.0285	CHENPANDA	3	4	4	4	4	3	4
573	0.0274	CHENPANDA	3	4	4	4	4	3	4
574	0.0283	CHENPANDA	3	4	4	4	4	3	4
575	0.0325	CHENPANDA	4	4	4	4	4	4	4
584	0.0221	CHENPANDA	2	3	3	4	3	2	2
614	0.0274	CHENPANDA	3	4	4	4	4	3	4
644	0.0418	CHENPANDA	4	4	6	4	6	4	4
649	0.0195	CHENPANDA	2	3	3	3	2	2	4
662	0.0274	CHENPANDA	3	4	4	4	4	3	4
711	0.0154	CHENPANDA	3	4	2	4	1	2	3
717	0.0363	CHENPANDA	4	4	6	4	4	4	4
718	0.0363	CHENPANDA	4	4	6	4	4	4	4
724	0.0161	CHENPANDA	3	4	2	4	1	2	3
726	0.0229	CHENPANDA	2	3	4	3	3	2	2
727	0.0418	CHENPANDA	4	4	6	4	6	4	4
732	0.032	CHENPANDA	4	4	4	4	4	3	4
736	0.0182	CHENPANDA	2	3	2	3	2	2	2
769	0.0272	CHENPANDA	3	4	4	4	4	3	4
770	0.0236	CHENPANDA	2	4	4	3	3	2	2
780	0.0367	CHENPANDA	4	4	6	4	6	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	4	4	6	4	6	4	4
825	0.0254	CHENPANDA	2	4	4	4	4	3	2
510	0.0218	CHIANGMAI	2	3	3	3	3	4	2
513	0.0326	CHONGQING	4	4	4	4	4	4	4
648	0.0343	CHONGQING	4	4	4	4	4	4	4
676	0.0343	CHONGQING	4	4	4	4	4	4	4
525	0.0311	FUCHOW	4	6	4	4	4	3	4
532	0.0282	FUCHOW	4	4	4	4	4	3	3
538	0.036	FUCHOW	6	5	6	4	4	4	4
518	0.0307	GUANGZH Z	4	4	4	4	4	4	3
689	0.0199	GUANGZH Z	6	3	6	4	4	-	2
628	0.0423	GUIZHOU W	4	4	6	4	6	4	4
515	0.032	HEFEI W	4	4	4	4	4	3	4
592	0.0269	LANCHOW	3	4	4	4	4	3	4
714	0.0228	LIUGONGDA	2	-	4	4	3	2	-
377	0.0158	LOUGUANTA	3	4	2	4	1	3	3
460	0.0397	LOUGUANTA	4	5	6	4	6	4	4
553	0.0238	LOUGUANTA	2	4	4	3	3	2	4
624	0	LOUGUANTA	4	6	2	6	2	4	4
697	0.0012	LOUGUANTA	4	6	2	6	2	4	4

Males ⇩	MK⇩	Location	771 0.0222 YAAN BC	774 0.03 YAAN BC	776 0.0104 YAAN BC	781 0.0289 YAAN BC	791 0.0122 YAAN BC	794 0.0199 YAAN BC	800 0.022 YAAN BC
703	0	LOUGUANTA	4	6	2	6	2	4	4
753	0.0079	LOUGUANTA	4	4	1	4	2	3	4
802	0	LOUGUANTA	4	6	2	6	2	4	4
803	0	LOUGUANTA	4	6	2	6	2	4	4
520	0.0258	LUOYANG	2	4	4	4	4	3	2
519	0.0264	MADRID Z	3	4	4	4	4	3	3
792	0.0242	MADRID Z	2	4	4	4	3	3	2
793	0.0242	MADRID Z	2	4	4	4	3	3	2
466	0.0202	MEMPHIS	2	3	3	4	2	2	2
399	0.0427	NANCHANG	6	5	6	4	6	4	4
707	0.0356	NINGBO	4	4	6	4	4	4	4
708	0.0356	NINGBO	4	4	6	4	4	4	4
458	0.0348	NZP-WASH	4	-	6	4	4	4	4
609	0.0172	PANYU	4	4	2	4	4	2	3
613	0.0226	PANYU	2	3	3	4	3	2	2
742	0.0284	PANYU	6	4	6	-	4	-	3
744	0.0264	PANYU	4	-	4	4	4	3	-
747	0.022	PANYU	2	-	3	4	3	2	-
750	0.0309	PANYU	4	4	4	4	4	3	3
415	0.0044	SANDIEGOZ	4	6	1	6	1	4	4
749	0.025	SANDIEGOZ	4	4	4	4	4	3	2
357	0.0024	SHANGHAI	4	6	1	6	-	4	4
492	0.0307	SHANGHAI	4	4	4	4	4	3	3
583	0.0362	SHANGHAI	4	4	6	-	4	4	4
745	0.0258	SHANGHAI	4	-	4	4	4	3	-
746	0.0258	SHANGHAI	4	-	4	4	4	3	-
752	0.0129	SHANGHAI	3	4	1	4	2	2	3
588	0.0316	TAIPEI	4	4	4	4	4	3	4
659	0	TAIYUAN	4	6	2	6	2	4	4
589	0.0316	TIANJIN	4	4	4	4	4	3	4
721	0.03	TIANMUHU	4	-	4	4	4	3	-
612	0.0362	TOKYOUENO	4	4	6	-	4	4	4
526	0.019	VIENNA	4	3	3	4	4	-	2
789	0.0272	VIENNA	4	4	4	4	4	4	4
390	0.0243	WAKAYAMA	2	4	4	4	3	3	2
738	0.0305	WAKAYAMA	3	4	4	4	4	3	4
782	0.0305	WAKAYAMA	3	4	4	4	4	3	4
713	0.02	WEIFANG	2	3	3	3	2	4	2
715	0.0257	WEIFANG	2	4	4	4	4	3	2
633	0.0323	WENLING S	4	4	4	4	4	4	4
636	0.0303	WENLING S	4	-	4	-	4	4	-
639	0.0297	WENLING S	4	-	4	4	4	3	-
530	0.0327	WENZHOU	4	4	4	4	4	4	4
670	0.0368	WENZHOU	4	4	6	4	6	4	4
777	0.0122	WOLONG	3	-	2	4	1	2	-
807	0.0222	WOLONG	4	4	6	4	3	-	2
809	0.028	WOLONG	4	4	6	4	4	-	3
607	0.026	WUHAN	4	4	4	4	4	3	2
619	0.0316	WUHAN	4	4	4	4	4	3	4
630	0.043	WUXI	4	4	6	4	6	4	4
646	0.0347	WUXI	4	4	6	4	4	4	4
668	0.0257	XIUNING	4	-	4	4	4	3	-
599	0.0323	XIXIAKOU	4	4	4	4	4	4	4
605	0.0433	XIXIAKOU	4	-	6	4	6	4	4
413	0.0303	YAAN BC	4	4	4	4	4	3	3
424	0.0327	YAAN BC	4	4	4	-	4	4	4
467	0.0305	YAAN BC	3	4	4	4	4	3	3
488	0.0225	YAAN BC	2	3	3	3	3	2	2
502	0.017	YAAN BC	-	4	-	-	2	-	3

Yellow Hilights are female to be bred and the males they can be bred with

Males ⇩	MK⇩	Females ⇨ MK⇨ Location	771 0.0222 YAAN BC	774 0.03 YAAN BC	776 0.0104 YAAN BC	781 0.0289 YAAN BC	791 0.0122 YAAN BC	794 0.0199 YAAN BC	800 0.022 YAAN BC
503	0.0208	YAAN BC	2	-	3	-	3	2	-
542	0	YAAN BC	4	6	2	6	2	4	4
563	0.0252	YAAN BC	4	4	4	4	4	3	2
564	0.0314	YAAN BC	4	4	4	4	4	3	4
579	0.0009	YAAN BC	4	6	2	6	-	4	4
582	0.0202	YAAN BC	4	4	3	3	3	2	2
586	0.0255	YAAN BC	4	4	4	4	4	3	2
594	0	YAAN BC	4	6	2	6	2	4	4
595	0.0255	YAAN BC	4	4	4	4	4	3	4
621	0.0005	YAAN BC	4	6	2	6	2	4	4
623	0.0051	YAAN BC	-	6	1	4	1	4	4
661	0	YAAN BC	4	6	2	6	2	4	4
674	0.0108	YAAN BC	4	4	6	4	1	-	3
685	0.0272	YAAN BC	4	4	4	4	4	4	4
690	0.0199	YAAN BC	6	3	6	4	4	-	2
719	0.0182	YAAN BC	2	3	2	4	2	2	2
743	0.0131	YAAN BC	3	4	1	4	1	2	3
748	0.0137	YAAN BC	3	4	1	4	1	2	3
756	0.0203	YAAN BC	2	4	3	4	2	2	-
758	0.0217	YAAN BC	4	-	3	4	4	-	-
768	0.0336	YAAN BC	4	4	4	4	4	4	4
772	0.0222	YAAN BC	-	4	4	4	4	6	2
773	0.0356	YAAN BC	4	4	6	4	4	4	4
775	0.0104	YAAN BC	4	4	-	4	1	6	3
778	0.0267	YAAN BC	4	4	4	4	4	3	3
786	0.0294	YAAN BC	4	4	4	4	4	3	4
790	0.0311	YAAN BC	4	4	4	4	4	4	4
798	0.0178	YAAN BC	4	4	2	3	3	2	3
688	0.038	YANTAI	4	4	6	4	6	4	4

Males ⇩	MK⇩	Location	826 0.0044 YAAN BC	827 0.0044 YAAN BC	567 0.0249 YANGZHOU	669 0.0257 YANTAI	631 0.028 YUNNAN W	634 0.0323 YUNNAN W	650 0.0183 YUNNAN W
327	0.0014	ABERDE HK	1	1	4	6	6	6	4
606	0.0186	ABERDE HK	4	4	-	3	3	-	2
620	0.026	ADELAIDE	4	4	2	2	4	4	3
627	0.0423	ANJI BAMB	6	6	4	4	4	4	4
629	0.043	ANJI BAMB	6	6	4	4	4	4	6
666	0.0363	ANJI BAMB	6	6	4	4	4	5	4
461	0.018	ATLANTA	4	4	3	3	3	4	2
731	0.0195	ATLANTA	4	4	3	3	3	4	4
801	0.0195	ATLANTA	4	4	3	3	3	4	4
394	0.0482	BEIJING	6	6	4	5	5	-	6
496	0.0369	BEIJING	6	6	4	4	4	4	4
454	0.0321	CHENGDU	6	6	4	4	4	4	4
536	0.0287	CHENGDU	6	6	4	4	4	4	4
342	0.006	CHENPANDA	1	1	4	4	4	6	4
386	0.0202	CHENPANDA	4	4	3	3	3	3	2
455	0.0474	CHENPANDA	6	6	4	4	4	5	6
529	0.0327	CHENPANDA	6	6	4	4	4	4	4
540	0.0285	CHENPANDA	4	4	4	4	4	4	4
573	0.0274	CHENPANDA	4	4	2	4	4	4	4
574	0.0283	CHENPANDA	4	4	4	4	4	4	4
575	0.0325	CHENPANDA	6	6	4	4	4	4	4
584	0.0221	CHENPANDA	4	4	4	2	3	4	2
614	0.0274	CHENPANDA	4	4	2	4	4	4	4
644	0.0418	CHENPANDA	6	6	4	4	4	4	4
649	0.0195	CHENPANDA	4	4	3	3	3	4	4
662	0.0274	CHENPANDA	4	4	2	4	4	4	4
711	0.0154	CHENPANDA	3	3	3	3	4	4	1
717	0.0363	CHENPANDA	6	6	4	4	4	5	4
718	0.0363	CHENPANDA	6	6	4	4	4	5	4
724	0.0161	CHENPANDA	3	3	3	3	3	4	1
726	0.0229	CHENPANDA	4	4	2	2	3	4	3
727	0.0418	CHENPANDA	6	6	4	4	4	4	4
732	0.032	CHENPANDA	6	6	4	4	4	4	4
736	0.0182	CHENPANDA	4	4	3	3	3	4	2
769	0.0272	CHENPANDA	4	4	2	2	4	4	4
770	0.0236	CHENPANDA	4	4	2	2	3	4	3
780	0.0367	CHENPANDA	6	6	4	4	4	4	4
787	0.0197	CHENPANDA	5	5	5	5	5	5	5
788	0.0197	CHENPANDA	5	5	5	5	5	5	5
815	0.043	CHENPANDA	6	6	4	4	4	4	6
825	0.0254	CHENPANDA	4	4	2	2	4	4	3
510	0.0218	CHIANGMAI	4	4	2	2	3	4	2
513	0.0326	CHONGQING	6	6	-	4	4	4	4
648	0.0343	CHONGQING	6	6	-	4	4	-	4
676	0.0343	CHONGQING	6	6	-	4	4	-	4
525	0.0311	FUCHOW	6	6	4	4	6	4	4
532	0.0282	FUCHOW	4	4	4	4	4	-	3
538	0.036	FUCHOW	6	6	4	4	4	4	4
518	0.0307	GUANGZH Z	6	6	4	4	4	4	4
689	0.0199	GUANGZH Z	4	4	3	3	-	4	2
628	0.0423	GUIZHOU W	6	6	4	4	4	4	4
515	0.032	HEFEI W	6	6	4	4	4	4	4
592	0.0269	LANCHOW	4	4	2	2	4	4	4
714	0.0228	LIUGONGDA	4	4	2	-	3	4	3
377	0.0158	LOUGUANTA	3	3	3	3	3	4	1
460	0.0397	LOUGUANTA	6	6	4	4	5	5	4
553	0.0238	LOUGUANTA	4	4	2	2	3	4	4
624	0	LOUGUANTA	1	1	56	66	6	6	4
697	0.0012	LOUGUANTA	1	1	4	6	6	6	4

Males ⇩	MK⇩	Location	826 0.0044 YAAN BC	827 0.0044 YAAN BC	567 0.0249 YANGZHOU	669 0.0257 YANTAI	631 0.028 YUNNAN W	634 0.0323 YUNNAN W	650 0.0183 YUNNAN W
703	0	LOUGUANTA	1	1	6	6	6	6	4
753	0.0079	LOUGUANTA	1	1	4	4	4	6	3
802	0	LOUGUANTA	1	1	6	6	6	6	4
803	0	LOUGUANTA	1	1	6	6	6	6	4
520	0.0258	LUOYANG	4	4	2	2	4	4	3
519	0.0264	MADRID Z	4	4	2	2	4	4	3
792	0.0242	MADRID Z	4	4	2	2	2	4	3
793	0.0242	MADRID Z	4	4	2	2	2	4	3
466	0.0202	MEMPHIS	4	4	-	3	3	-	2
399	0.0427	NANCHANG	6	6	4	5	5	5	6
707	0.0356	NINGBO	6	6	-	4	4	-	4
708	0.0356	NINGBO	6	6	-	4	4	-	4
458	0.0348	NZP-WASH	6	6	4	4	-	4	4
609	0.0172	PANYU	4	4	3	4	4	-	2
613	0.0226	PANYU	4	4	-	2	3	-	3
742	0.0284	PANYU	4	4	4	4	-	4	3
744	0.0264	PANYU	4	4	2	-	4	-	3
747	0.022	PANYU	4	4	4	-	3	4	-
750	0.0309	PANYU	6	6	4	4	4	4	4
415	0.0044	SANDIEGOZ	1	1	4	4	4	6	4
749	0.025	SANDIEGOZ	4	4	2	4	4	4	3
357	0.0024	SHANGHAI	1	1	4	4	6	6	4
492	0.0307	SHANGHAI	6	6	4	4	4	4	4
583	0.0362	SHANGHAI	6	6	-	4	4	-	4
745	0.0258	SHANGHAI	4	4	2	-	4	4	3
746	0.0258	SHANGHAI	4	4	2	-	4	4	3
752	0.0129	SHANGHAI	2	2	3	4	4	4	4
588	0.0316	TAIPEI	6	6	-	-	4	-	4
659	0	TAIYUAN	1	1	6	6	6	6	4
589	0.0316	TIANJIN	6	6	-	-	4	-	4
721	0.03	TIANMUHU	6	6	4	-	4	4	3
612	0.0362	TOKYOUENO	6	6	-	4	4	-	4
526	0.019	VIENNA	4	4	3	3	3	4	2
789	0.0272	VIENNA	4	4	4	4	4	4	4
390	0.0243	WAKAYAMA	4	4	2	2	2	4	4
738	0.0305	WAKAYAMA	6	6	4	4	4	4	4
782	0.0305	WAKAYAMA	6	6	4	4	4	4	4
713	0.02	WEIFANG	4	4	3	3	3	4	2
715	0.0257	WEIFANG	4	4	2	2	4	4	3
633	0.0323	WENLING S	6	6	-	4	4	-	4
636	0.0303	WENLING S	6	6	4	-	4	4	3
639	0.0297	WENLING S	6	6	4	-	4	4	3
530	0.0327	WENZHOU	6	6	4	4	4	4	4
670	0.0368	WENZHOU	6	6	4	4	4	4	4
777	0.0122	WOLONG	1	1	4	-	4	4	2
807	0.0222	WOLONG	4	4	2	4	-	4	2
809	0.028	WOLONG	4	4	2	4	-	4	3
607	0.026	WUHAN	4	4	2	4	4	4	-
619	0.0316	WUHAN	6	6	-	-	4	-	4
630	0.043	WUXI	6	6	4	4	4	4	6
646	0.0347	WUXI	6	6	4	4	4	4	4
668	0.0257	XIUNING	4	4	2	-	4	4	3
599	0.0323	XIXIAKOU	6	6	-	4	4	4	4
605	0.0433	XIXIAKOU	6	6	4	4	5	4	6
413	0.0303	YAAN BC	6	6	4	4	4	4	3
424	0.0327	YAAN BC	6	6	-	4	4	-	4
467	0.0305	YAAN BC	6	6	4	4	4	4	4
488	0.0225	YAAN BC	4	4	2	2	3	4	4
502	0.017	YAAN BC	4	4	3	3	-	4	1

2012 MSI Table **Yellow Hilights are female to be bred and the males they can be bred with**

Males ⇓	MK⇓	Location	826 0.0044 YAAN BC	827 0.0044 YAAN BC	567 0.0249 YANGZHOU	669 0.0257 YANTAI	631 0.028 YUNNAN W	634 0.0323 YUNNAN W	650 0.0183 YUNNAN W
503	0.0208	YAAN BC	4	4	3	-	3	4	2
542	0	YAAN BC	1	1	6	6	6	6	4
563	0.0252	YAAN BC	4	4	2	4	4	4	3
564	0.0314	YAAN BC	6	6	4	4	4	6	4
579	0.0009	YAAN BC	1	1	4	6	6	6	4
582	0.0202	YAAN BC	4	4	3	4	-	4	2
586	0.0255	YAAN BC	4	4	2	4	4	6	3
594	0	YAAN BC	1	1	6	6	6	6	4
595	0.0255	YAAN BC	4	4	2	4	4	4	4
621	0.0005	YAAN BC	1	1	6	6	6	6	4
623	0.0051	YAAN BC	-	-	4	4	4	6	4
661	0	YAAN BC	1	1	6	6	6	6	4
674	0.0108	YAAN BC	1	1	4	4	-	4	2
685	0.0272	YAAN BC	4	4	4	4	4	4	4
690	0.0199	YAAN BC	4	4	3	3	-	4	2
719	0.0182	YAAN BC	4	4	-	3	3	-	2
743	0.0131	YAAN BC	2	2	3	4	4	4	2
748	0.0137	YAAN BC	3	3	3	3	4	4	4
756	0.0203	YAAN BC	4	4	-	4	3	3	4
758	0.0217	YAAN BC	4	4	2	-	3	4	2
768	0.0336	YAAN BC	6	6	-	4	4	-	4
772	0.0222	YAAN BC	4	4	2	4	4	4	2
773	0.0356	YAAN BC	6	6	-	4	4	-	4
775	0.0104	YAAN BC	1	1	4	4	6	4	2
778	0.0267	YAAN BC	4	4	2	4	4	4	4
786	0.0294	YAAN BC	6	6	4	4	4	4	4
790	0.0311	YAAN BC	6	6	4	4	4	4	4
798	0.0178	YAAN BC	-	-	3	-	4	4	2
688	0.038	YANTAI	6	6	4	4	4	4	4