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ORIGINAL ARTICLE

Mate Choice Copying in Humans: a Systematic Review and Meta-Analysis

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Abstract

Objective Mate choice copying (MCC) is a type of non-independent mate choice where the 'probability of acceptance' of a potential mate increases if they are observed to be chosen by others first. The phenomenon was first demonstrated in several non-human taxa, with studies on humans conducted shortly after. The effect has been consistently documented among women choosing men (female choice), with mixed results among men choosing women (male choice). To understand and test the overall level of support for MCC in humans, we conducted a systematic review and meta-analysis, including a sensitivity analysis for publication bias.

Methods We found that the two most commonly used methods of studying MCC in humans involved either the 'addition' of a cue (opposite sex other) or the 'augmentation' of cues (manipulating 'mate quality' of opposite sex other). We performed separate meta-analyses for these two approaches, splitting each into male choice and female choice.

Results Women were more likely to rate male targets as more desirable when presented alongside a female while no obvious effects were detected with male choice. These sex differences disappeared in studies that 'augment' cues, as both sexes rated targets as more attractive when in the presence of more desirable others. We also detected high levels of heterogeneity in effect sizes and a moderate publication bias in favor of positive reports of MCC.

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Conclusions Our results provide clarification for documented sex differences (or lack thereof) in human MCC. We also discuss the importance of method consistency in studies that transfer ideas from non-human to human behavioral studies, highlighting replication issues in the light of the publication crisis in psychological science.

Keywords Mate choice copying · Mate preferences · Sex differences · Social judgment · Desirability

Introduction

Prevailing social factors influence the evolution of mate choice (West-Eberhard 2014), producing phenotypic plasticity in response to contextual variation, including the distribution of available mates (Jennions and Petrie 1997). Mate choice copying (MCC), wherein the likelihood of an individual accepting a mate is augmented when that mate has been seen, or inferred to have been chosen as a mate by others, represents one social process that may impact on attractiveness (Pruett-Jones 1992). MCC may allow individuals to assess the quality of potential mates without having to bear the full costs of mate searching (Wade & Pruett-Jones 1990), making copying a possible adaptive feature of mate choice behavior. In non-human animals, MCC has also been shown to reverse mate preferences, leading to the claim that mate choice copying can alter the form and direction of sexual selection (Dugatkin and Godin 1992, but see Brooks 1998).

Detection of Mate Choice Copying; from Non-human to Human Subjects

Mate choice copying was first documented in guppies (*Poecilia reticulata*) (Dugatkin and Godin 1992, but see Brooks 1996, 1999) and has since been reported in sailfin mollies (*Poecilia latipinna*) (Schlupp and Ryan 1997), Japanese quail (*Coturnix japonica*) (Galef and White 1998), Zebra Finches (*Taeniopygia guttata*) (Swaddle et al. 2005) and flies (*Drosophila serrata)* (Auld et al. 2009). Dugatkin (2000) first suggested that humans may also copy the mate choices of other individuals, particularly given the importance of social information in human mate choice. Inspired by Dugatkin's (2000) research on imitative learning and mate choice, and a popular article by Jonathan Knight (2000), Uller and Johansson (2003) tested the hypothesis that men who wear wedding rings enjoy elevated attractiveness as a form of mate choice copying. Women had short interviews with two men each, experimentally assigned to wear or not wear a wedding ring, after which they reported their preferences for the men. No evidence of a wedding ring effect (i.e. mate choice copying) was found (Uller and Johansson 2003).

While MCC is best measured via number of copulations in non-human animals (Kraak 1996), studies in humans rely on indirect experimental approaches. In fact, the Uller and Johansson (2003) study was unusual in that it permitted direct interaction between subjects and models. Other tests of human mate choice copying have relied on more controlled experimental circumstances, and subjects are usually asked to judge a model's attractiveness or preferences for a romantic relationship with the model individual. These studies manipulate cues such as statement of marital status (Eva and Wood 2006); display models in presence of an opposite-sex target (Waynforth

2007) or manipulate the morphological traits of the opposite sex others, such as facial masculinity/femininity (Jones et al. 2007; Little et al. 2008). The majority of studies testing MCC in humans are measured by obtaining images of men and women (together and separately) and having them rated for desirability, interest or physical attractiveness.

Mechanisms Encompassing Individual-Based Mate Choice Copying

The majority of studies on MCC effects in humans have focused on 'individual-based copying' where the dependent variable is the response of the subject toward the target individual presented alongside an opposite-sex other, compared with a target presented alone (Bowers et al. 2012). Recent studies have suggested that MCC may extend beyond solely an ability to attract a partner and include assessing the underlying biological and social qualities of potential mates. For instance, a man in the presence of a 'high quality women of higher mate value' who is highly physically attractive or has a desirable personality informs female copiers that the man must also have high-quality features that are not readily observable (Anderson and Surbey 2014; Chu 2012; Little et al. 2011a). It is possible that 'cues of quality' provide useful information to women who observe (copiers), thereby providing grounds to discriminate between high and low-quality prospective mates. By copying the choice of a high-quality female that would most likely only pair with a high-quality male (Buss and Barnes 1986), female copiers might enhance the genetic or direct benefits gained via mate choice and reduce direct costs or risk to themselves and future offspring.

Whilst men are also expected to choose women of high mate value, the benefits and risks associated with mate choice and mate choice copying differ between women and men (Geary et al. 2004). Selecting a female partner who is either currently or has recently been in a relationship with another man may increase a copying man's risk of misdirecting parental investment to the offspring of another male (Hill and Buss 2008; Buss and Schmitt 1993; Trivers 1972), which is why MCC behaviours are not considered to be part of male mate choice. However, the evidence regarding mate choice copying in men has been mixed; some reporting mate choice copying (Yorzinski and Platt 2010) and other not (Hill and Buss 2008).

In order to explore these mechanisms regarding mate choice copying and mate quality, previous studies have manipulated physical attractiveness (e.g. high and low) (Little et al. 2008; Little et al. 2011a), prosocial personality traits (e.g. pleasant/unpleasant); (Chu 2012; Little et al. 2015) and, sentiments towards targets (Deng and Zheng 2015; Jones et al. 2007). Interestingly, the phenomenon of mate choice copying and mate quality was documented in older studies in a variety of contexts under different terminology. For example, Sigall and Landy (1973) described a 'radiating beauty' effect, where the presence of a highly attractive female increases the attractiveness of a male. Other studies paired 'dissimilarly attractive' men and women and found that male rated attractiveness was related to the paired female's attractiveness (Bar-tal and Saxe 1976; Hartnett and Elder 1973; Meiners and Sheposh 1977). More recent studies have attempted to define this process as a different form of mate choice copying i.e. mate quality bias (Vakirtzis and Roberts 2010); or a mate choice copying *like* effects (see Hill and Buss 2008; Rodeheffer et al. 2016; Jones et al. 2007). It has been argued, however, that this process involves the use of social information (i.e. the presence of an opposite sex other) by an observer that influences mate choice, which is incorporated within the parameters of mate choice copying (Witte and Godin 2010). Taking all into consideration, we define studies of individual-based copying comprising of two mechanisms; 1) the mere presence of a particular cue can drive MCC (i.e. addition of cue) and 2) more complex effects involving the apparent quality of a cue underpins MCC (augmentation of cue).

Sex Differences and Attitudes Linked to Mate Choice Copying

People judge the character and likeability of targets based on characteristics of the opposite sex other they are paired with (Bar-tal and Saxe 1976; Hartnett and Elder 1973; Meiners and Sheposh 1977) with different effects on men and women. Overall, men are perceived more favorably than women when in the presence of an attractive female (Hartnett and Elder 1973; Bar-tal and Saxe 1976; Meiners and Sheposh 1977). As such, men may feel more comfortable or may even desire to be in the company of women as it improves their status as a mate. In contrast, the social effects for a woman presented alongside a man depends more on her mate value, the mate value of the man she appears with, and the cultural context (Hartnett and Elder 1973; Bar-tal and Saxe 1976; Meiners and Sheposh 1977) and as a result, women may not be as willing to be in the company of men as not only is their attractiveness diminished, but factors may further impede their desirability, both sexual and social. By testing and understanding mate choice copying effects we may gain some insights into one simple component involved with the sexual double standard (Crawford and Popp 2003; Marks and Fraley 2005); where men are rewarded for having a high number of sexual partners, while women are penalized for the same behavior.

Meta-Analysis

In the current study, we present a meta-analysis of the available evidence for MCC in humans. While the paucity of studies across the various methodologies employed makes large-scale comparisons of approaches unfeasible, there are sufficient studies investigating sex differences in MCC to conduct a series of mini meta-analyses. These studies have tested (i) Addition-based MCC effects in women choosing among men, (ii) Addition - based MCC effects in men choosing among women, (iii) Augmented-cue MCC effects in women choosing among men and (iv) Augmented-cue MCC effects in men choosing among women. We used meta-analyses to test for sex differences in mate choice copying effects because evolutionary studies of human mate choice (Buss 1991; Buss and Schmitt 1993; Gangestad and Simpson 2000) provide ample reasons to predict that the benefits and costs of observing and imitating the mate choice of others will differ.

Method

Literature Search for Systematic Review

We followed the search protocol from the PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) statement (Moher et al. 2009) where possible.

To start, we searched *Web of Science, PsycINFO, and PubMed* using the search terms "Mate Choice Copying" OR "Mate Copying" OR "Non-Independent Mate Choice" on the 10th of May 2014. As this was a meta-analysis and systematic review, ethics approval was not required.

The combined sources gave us a total of 252 articles – which was reduced to 134 when duplicates were removed (Fig. 1). Twenty-three articles were discarded based on title (e.g. studies were focused on other forms of non-independent mate choice that did not include mate choice copying). A further 69 articles were rejected, as studies were focused on non-human animals.

This left a total of 42 articles. We applied our exclusion criteria to this group and a further 24 articles that did not contain quantifiable data or were reviews, commentaries or replies were excluded (see Online Resource 1 for more list of omitted papers).

We implemented a backward/chain search which involved identifying references or works cited in an article. Using this method we found an additional 8 articles. It is likely that these articles did not come up on our search as they were either older (pre- 1990), did not report their finding specifically as a 'mate choice copying effect' or were published in journals not accessible through the databases we used. As we were compiling data for the review and meta-analysis; issues in replication in psychological science came under light and the Open Science Collaboration (2015) estimated the reproducibility of psychological science by replicating 100 experimental and correlational studies. We searched and found that the results of one the studies included in the review (i.e. Bressan and Stranieri 2008) were replicated by Frazier & Hasselman (2015); which was included in the review and meta-analysis. We sent a series of e-mails to researchers who have published multiple papers on this topic asking if there were any unpublished data, which yielded 2 unpublished articles. This left a total of 29 articles (see Fig. 1; Tables 1 & 2). To keep updated, we set up a series of 'Google Alerts' using the keywords mentioned above. From this, we yielded 2 more articles which were published after conducting the original search (see Fig. 1; Tables 1 and 2). This was ceased in October 2016. This left a final total of 31 articles for the systematic review.

Inclusion and Exclusion Criteria for Meta-Analysis

To the 31 articles, we then applied the following inclusion criteria:

(i) An article must report measurements of physical attractiveness and/or desirability including 'willingness to date' or 'interest'.
(ii) Experimental design must include treatments of male and/or female targets presented alone and targets presented with a cue that triggers mate choice copying i.e. presence of an opposite sex other, wearing a wedding ring, declaration of relationship or sexual history; or/and:
(iii) Experimental design must include treatments of male and/or female targets presented with opposite sex others with more favorable characteristics and targets with less favorable characteristics i.e. opposite sex other with high or low attractiveness, personality, and character.

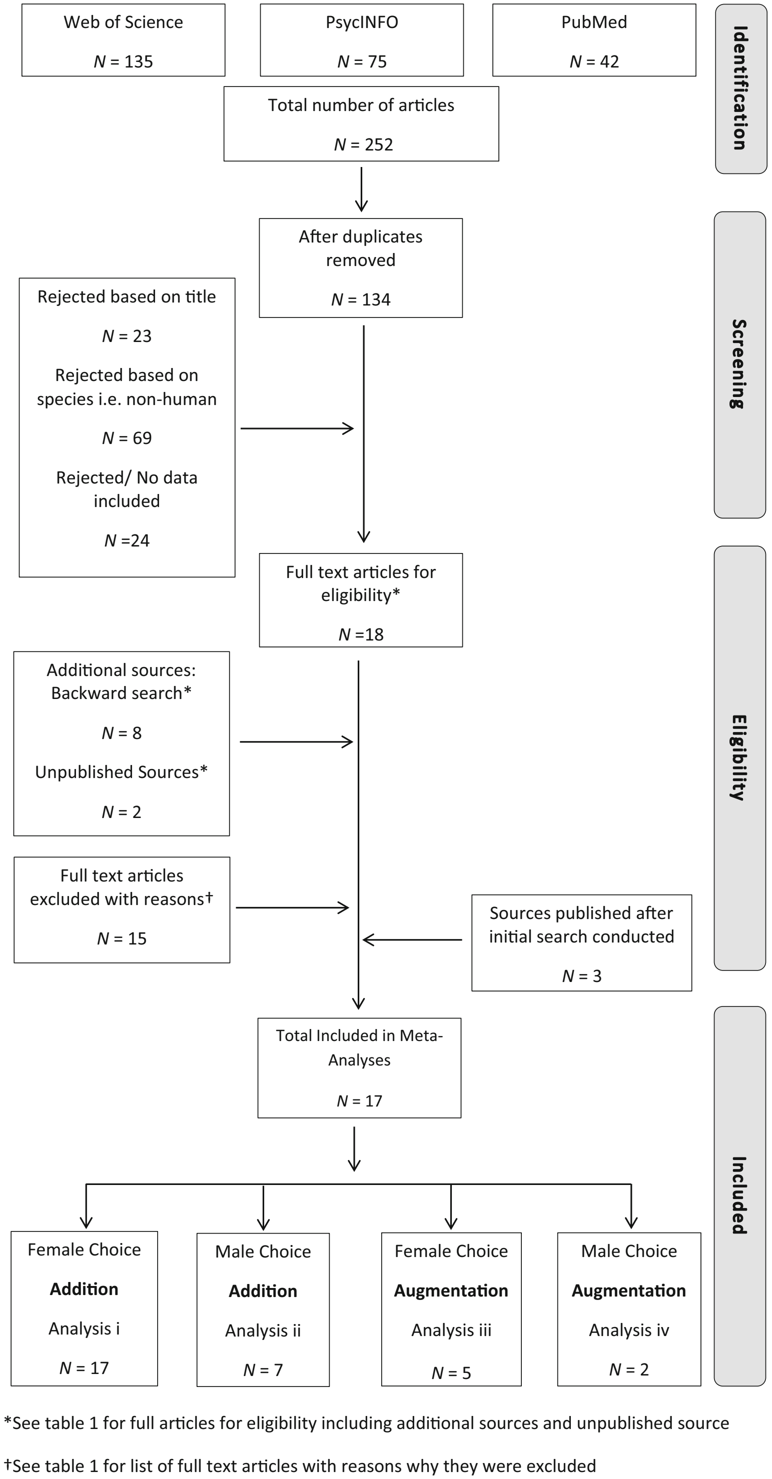

Fig. 1 Flowchart of the screening process for article selection

From each article, data was examined and papers were excluded based on the following criteria:

(i) Insufficient data; we required the Means and Standard Deviations (or anything else that would allow us to calculate Means and SDs) of rated attractiveness/desirability. We also required data to be separated by participant sex, as we examined female and male choice separately (i.e. Sigall and Landy (1973) was excluded due to this). Authors were contacted and data was requested if data was not observable.
(ii) Consistency of methodology; studies that required participants to compare and choose between 2 targets (instead of rating the attractiveness of 1 target) such as Chu (2012) and Little et al. (2008) were excluded. Additionally, studies that included measurements that did not allude to attractiveness or desirability were excluded; for instance, Vakirtzis and Roberts (2012a) collected Questionnaires regarding previous relationships and mating as opposed to rating target attractiveness/desirability/willingness to date.
(iii) Studies that include an incidental measure were excluded. Within the design, studies had to compare either the presence vs absence of opposite-sex others or the positive vs negative effects of opposite-sex others. For example, Anderson and Surbey (2014), Millinof et al. (2007) and Gouda-Vossos et al. compared the absence vs a varying number of opposite-sex others under the assumption that higher number of partners increases attractiveness; the presence vs absence effect will be measured but not the between effects of varying number of opposite-sex others

In cases where variables such as 'long/short term', 'young/old age', 'high/low fertility', 'attached/single participants' were measured, we collapsed the responses. This was done because there were not enough studies to test whether these moderators influenced the results. This left a total of 18 studies assessing 3040 participant responses, specifically for the meta-analysis. For a list of included papers and excluded papers with reasons, see Tables 1 & 2.

Data Extraction and Coding

We collected data regarding two types of manipulations that are commonly used in mate choice copying designs: 1) Addition of cue subjects alone vs with an opposite sex other (hereafter known as 'Addition') and 2) Augmentation of cue: subjects with a less favourable opposite sex other vs a more favourable opposite sex other (hereafter known as 'Augmentation'). We used statistics reported in the original papers but in a few instances, we used *GetData Graph Digitizer* (Fedorov 2002) to gather information from figures and graphs if the information was not stated directly. If values were not obvious, we requested raw data from authors and used those values if the data was provided.

From this, we calculated the log response ratio (*In*RR). We chose this method to calculate this particular unit-less effect size statistic not only because experimental designs (including method of measurement) were not consistent from study to study (e.g. the unit of measurements differed among studies) but also because the point estimate of *ln*RR does not depend on sampling standard deviations of choice outcomes, which could be affected not only by mate choice differences in subjects but also by

Table 1 Summary of studies that utilized the 'addition' methodology i.e. presenting targets 'with' and 'without' opposite sex other

Female Choice					Male Choice				
Source	Measure	Sample N°	MCC	Meta-analysis	Source	Measure	Sample N°	MCC	Meta-analysis
Anderson and Surbey (2014)	Desirability	123	Yes	Yes	Bowers et al. (2012)	Attractiveness	40	Yes	Yes
Bowers et al. (2012)	Interest	40	Yes	Yes	Dunn and Doria (2010)	Attractiveness	40	Yes	Yes
Deng and Zheng (2015)	Attractiveness	76	Yes	Yes	Gouda-Vossos et al. (2016)	Attractiveness	132	Yes	Yes
Dunn and Doria (2010)	Attractiveness	40	Yes	Yes	Hill and Buss (2008)	Desirability	369	No	Yes
Eva and Wood (2006)	Attractiveness	38	Yes	Yes	Vakirtzis and Roberts (2012a)*	Questionnaire	206	No	No [(i)]
Gouda-Vossos et al. (2016)	Attractiveness	121	Yes	Yes					
Hill and Buss (2008)	Desirability	478	Yes	Yes					
Rodeheffer et al. (2016) exp. 1	Desirability	171	Yes	Yes					
Rodeheffer et al. (2016) exp. 2	Desirability	171	Yes	Yes					
Uller and Johansson (2003)	Attractiveness	97	No	Yes					
Vakirtzis and Roberts (2012a)	Questionnaire	175	Yes	No [(i)]					
Waynforth (2007)	Attractiveness	112	Yes	Yes					
Backward Search Source									
Bar-tal and Saxe (1976)	Attractiveness	64	Yes	No [(ii)]	Bar-tal and Saxe (1976)	Attractiveness	64	Yes	No [(ii)]
Bressan and Stranieri (2008)	Attractiveness	208	Yes	Yes	Parker and Burkley (2009)	Interest	87	Yes	Yes
Frazier & Hasselman (2015)[a]	Attractiveness	263	Yes	Yes					
Milonoff et al. (2007)	Willingness	138	No	Yes					
Parker and Burkley (2009)	Interest	97	Yes	Yes					
Sigall and Landy (1973)	Attractiveness	28	Yes	No [(ii)]					
Unpublished Sources									
Gouda-Vossos et al. (U/P)a[b]	Attractiveness	62	No	Yes	Gouda-Vossos et al. (U/P)a[b]	Attractiveness	38	No	Yes

Table 1 (continued)

Female Choice					Male Choice				
Source	Measure	Sample N°	MCC	Meta-analysis	Source	Measure	Sample N°	MCC	Meta-analysis
Gouda-Vossos et al. (U/P)b[c]	Attractiveness	241	No	Yes	Gouda-Vossos et al.(U/P)b[c]	Attractiveness	303	No	Yes

Methodology not comparable: Series of Questionnaires

(i) Sufficient data not provided: Results not separated by participant sex

(ii) Methodology not comparable: Physical attractiveness manipulated but not measured

*Authors contacted and either did not have the data or did not respond

[a] Replicate from Open Science Collaboration (2015)

[b] Data provided in Online Resource 6

[c] Data provided in Online Resource 7

Table 2 Summary of studies that ‘augmented’ cues i.e. presenting targets with ‘high’ and ‘low’ opposite-sex others

Female Choice						Male Choice					
Source	Measure	Sample N°	Trait Augmented	MCC	meta-analysis	Source	Measure	Sample N°	Trait Augmented	MCC	meta-analysis
Bowers et al. (2012)	Interest	40	Interest	Yes	No	Bowers et al. (2012)	Interest	40	Interest	Yes	No(iv)
Chu (2012)	Attractiveness	40	Character	Yes	No(i)	Dunn and Doria (2010)	Attractiveness	40	Interest	Yes	Yes
Deng and Zheng (2015)	Attractiveness	76	Interest	Yes	Yes	Little et al. (2008)*	Attractiveness	35	Masculine/ Feminine	Yes	No(ii)
Dunn and Doria (2010)	Attractiveness	40	Interest	Yes	Yes	Little et al. (2011a)*	Attractiveness	42	Masculine/ Feminine	Yes	No(iii)
Jones et al. (2007)	Attractiveness	28	Expressions	Yes	No(i)	Little et al. (2011b)*	Attractiveness	32	Masculine/ Feminine	Yes	No(iv)
Little et al. (2008)*	Attractiveness	51	Masculine/Feminine	Yes	No(ii)	Place et al. (2010)*	Interest	40	Interest	Yes	No(iv)
Little et al. (2011a)*	Attractiveness	36	Masculine/Feminine	Yes	No(iii)	Vakirtzis and Roberts (2010)*	Willingness	40	Attractiveness	No	No(iv)
Little et al. (2011b)*	Attractiveness	21	Masculine/Feminine	Yes	No(iv)	Vakirtzis and Roberts (2012a)*	Questionnaires	175	Attractiveness	No	No(v)
Little et al. (2015)*	Attractiveness	174	Popularity	Yes	Yes	Yorzinski and Platt (2010)	Attractiveness	30	Attractiveness	Yes	Yes
Place et al. (2010)*	Interest	40	Interest	Yes	No(iv)						
Vakirtzis and Roberts (2010)*	Willingness	40	Attractiveness	Yes	No(iv)						
Vakirtzis and Roberts (2012a)	Questionnaire	175	Attractiveness	Yes	No(iv)						
Vakirtzis and Roberts (2012b)*	Willingness	53	Attractiveness	Yes	No(v)						
Waynforth (2007)	Attractiveness	112	Attractiveness	Yes	Yes						
Yorzinski and Platt (2010)	Attractiveness	30	Attractiveness	Yes	Yes						
Backward Search Sources											

Table 2 (continued)

Female Choice						Male Choice					
Source	Measure	Sample Nº	Trait Augmented	MCC	meta-analysis	Source	Measure	Sample Nº	Trait Augmented	MCC	meta-analysis
Bar-tal and Saxe (1976)	Attractiveness	64	Attractiveness	Yes	No(iii)	Bar-tal and Saxe (1976)	Attractiveness	64	Attractiveness	Yes	No(iii)
Meiners and Sheposh (1977)	Overall impression	100	Attractiveness	Yes	No(iii)	Strane and Watts (1977)	Attractiveness	30	Attractiveness	Yes	No(iii)
Bressan and Stranieri (2008)	Attractiveness	208	Masculine/Feminine	Yes	No(ii)						
Sigall and Landy (1973)	Attractiveness	28	Attractiveness	Yes	No(iii)						

(i) Methodology not comparable: Side by side comparisons

(ii) Sufficient data not provided: SD not provided, cannot be determined from report or be estimated by similar studies

(iii) Sufficient data not provided: Results not separated by participant sex

(iv) Sufficient data not provided: 'Shift' in ratings of targets alone to targets with others reported; no means or SDs were provided or could be determined from report

(v) Methodology not comparable: Series of Questionnaires

*Authors contacted and either did not have the data or did not respond study designs (Hedges et al. 1999). For example, the number of stimulus photos/models used varies between studies with fewer stimuli creating less variability compared to studies with more stimuli (higher variability is created). This is because the higher the number of stimuli, the more variability is created via the choice outcomes. *In*RR counteracts this and allows us to calculate effect sizes fairly.

We also calculated the estimate of the sampling error variance (also referred to as within-study variance) of InRR, the inverse of which serves as weights in meta-analyses. Each within-study variance was calculated by taking into account the (non) independence of study design (e.g. repeated measured design) according to Nakagawa and Cuthill (2009) and Noble et al. (2017).

Statistical Analyses

All statistical analysis was performed in the R environment (Venables and Smith 2005). Separate analyses were carried out for the manipulations of addition and augmentation. Further, separate analyses were carried out for male and female subjects (as rated by opposite-sex participants). This constituted a total of 4 separate analyses i.e. (i) Female Choice/ 'addition of female cues' (ii) Male Choice/ 'addition of male cues' (iii) Female Choice/ 'augmentation of female cues' (iv) Male Choice/ 'augmentation of male cues'. For spreadsheet refer to Online Resource 2–5.

Publication bias was also examined by performing a 'Trim and Fill' analysis using the *trimfillI* function in *metafor*. A trim and fill analysis assesses how much bias may potentially impact a meta-analysis and estimates what the effect size would be in the absence of bias (Duval and Tweedie 2000a). It does this by removing the smallest studies (trimming) and recomputing an adjusted effect size (filling) until there is symmetry; which theoretically yields an unbiased estimate of the effect size (Duval and Tweedie 2000b). We only performed this on model (i) as it had a sufficient sample size (i.e. >10) to allow us to perform the analysis while (ii)-(vi) did not (i.e. <10) (Higgins and Green 2008).

Results

Overall Numbers Using the Counting Method

The majority of studies published (16 out of 18 i.e. 89%) reported an increase in attractiveness/desirability among males presented with a female ('addition' of female cue) while 5 out of 7 (71%) published studies reported an increase in attractiveness/desirability when females were in the presence of a male i.e. 'addition' of male cue (Table 1). The dominant method of measuring MCC was 'rated attractiveness'; however the 2 studies that did not detect MCC effects in male choice measured 'desirability' (Hill and Buss 2008) or asked questions regarding real life experiences (Vakirtzis and Roberts 2012a). None of the unpublished sources detected mate choice copying in either male or female choice.

Interestingly, 100% of papers reported an increase in attractiveness/desirability when males were in the presence of females with favorable characteristics i.e. 'augmentation' of female cue (Table 2). As we did not have any unpublished sources, this may reflect a publication bias. In regard to studies implementing 'augmentation' of male cues; 9 out of 11 papers (82%) report an increase of attractiveness/desirability when female targets were in the presence of males with favorable characteristics (Table 2).

Meta-Analysis

We assumed that there existed non-zero between-study variance, and as such, random-effects meta-analytic models (RMA) were fitted for models (i) – (iii). Even though RMA would provide more conservative results; we carried out a fixed-effect meta-analytic model (FMA) for model (iv), as there were not enough samples for the model to have random effects. All these analyses were undertaken using the *rma* function in the package *metafor* (Viechtbauer 2010). Further, in models (i) – (iii), we used restricted-maximum likelihood (REML) to estimate unbiased variance components and heterogeneity statistics (I^2 which is the ratio between the between-study variance and the total variance, i.e. between and within-study variance); note that a typical within-study variance is estimated following the method in Higgins and Thompson (2002). Statistical significance was inferred at $p < 0.05$. Heterogeneity (I^2) was classified with values of 25, 50 and 75 to denote low, medium and high respectively (Higgins et al. 2003).

In regard to *In*RR values, it must be noted that this is calculated as the natural logarithm of *(mean treatment /Mean control)*. If a final model estimate value is '0', then the 2 groups have the same mean. A value of, for example, '0.1' suggests that the 'treatment' group has an approximately 10.51% higher mean while a value of '-0.1' suggests that the 'control' has an approximately 10.51% higher mean.

Meta-Analysis (I) the 'Addition' of a Female Cue: Female Choice

The model estimate showed that the treatment group had a significantly higher mean than the control (0.058; Table 3.i) suggesting that males in the company of females are seen as more desirable by women than when they are alone. The positive mean revealed that men are rated 6.01% more attractive/desirable when in the presence of a female. Individual effect sizes and confidence intervals on the forest plot (Fig. 2a) appear to vary considerably and we detected high heterogeneity amongst these effect sizes ($I^2 = 88.38\%$; Table 3.i), suggesting that variables such as methods, effects of participant and sample characteristics may be contributing to the high variability between experiments.

Table 3 Models run to test for the prevalence of mate choice copying effects regarding female choice (i and iii) and male choice (ii & iv)

			Model Results		Test for heterogeneity (I^2)	
Model	Effect Sizes	Model Run	Estimate	*P* Value	I^2	P Value
i	17*	Random	0.058	<0.05	88.38	< 0.0001
ii	7	Random	−0.022	0.377	37.01	0.286
iii	5	Random	0.113	< 0.001	6.59	0.443
iv	2	Fixed	0.1293	<0.05	–	0.787

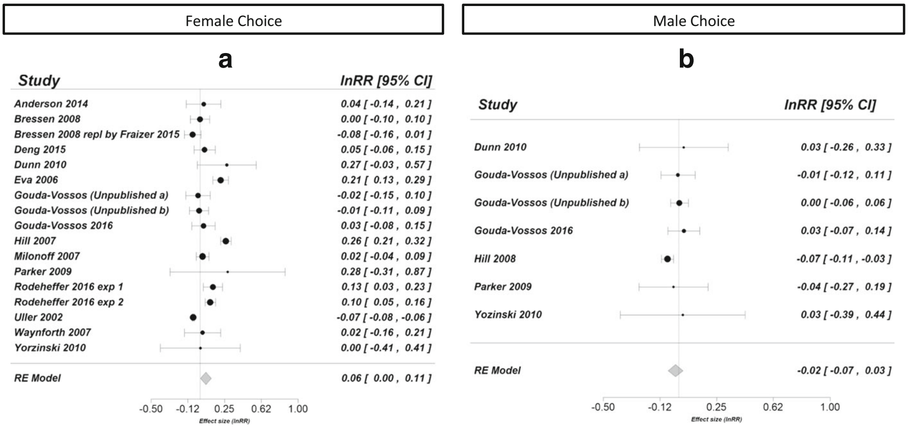

Fig. 2 Forest plots of effect sizes (*In*RR) plotted against studies for **a** Female choice/Female addition; meta-analysis i **b** Male Choice/Male addition; meta-analysis ii (created in *R*)

Trim and Fill Analysis for Meta-Analysis (I)

The trim and fill analysis produced 3 corrected effect sizes from 3 estimators i.e. R0, L0, and Q0 (Table 4) with the corrected effect sizes of "L0" and "Q0" being significant; suggesting the studies to be robust. This is not surprising as estimators "L0" and "Q0" have been documented to behave similarly (Duval and Tweedie 2000a). However, the trim and fill analysis for the "R0" estimator revealed possible publication bias as 3 studies were missing and it needed to 'filled' plus the corrected effect size was non-significant and almost half the original effect size (i.e. 0.032; 3.3%; Table 4). It should be noted that in a series of simulated tests, "L0" and "R0" are considered to perform better than "Q0" (Duval and Tweedie 2000b) and using "R0" is considered advantageous as it also provides a test of the null hypothesis that the number of missing studies (on the chosen side) is zero (Duval 2006). Taking all into consideration, the sensitivity analysis suggests that the impact of bias is probably modest. Further, the corrected effect sizes show that the key finding (i.e. men rated as more attractive when in the presence of females) remains relatively unchanged. However, the presence of high heterogeneity (> 80%; Table 4) across all 3 tests suggests that there is also a lot of unaccounted variance between studies.

Table 4 Trim and fill analysis for model (i)

		Model Results		Test For Heterogeneity (I^2)	
Estimator	# Missing Studies	Model Estimate	*p*-value	I^2	p-value
Original	–	0.058	< 0.05	88.38	< 0.0001
LO	0	0.058	< 0.05	85.38	< 0.0001
RO	3	0.032	0.298	91.43	< 0.0001
QO	0	0.058	< 0.05	88.38	< 0.0001

Meta-Analysis (Ii) the 'Addition' of a Male Cue: Male Choice

The RMA found a non-significant negative effect (−0.022; Table 3.ii) corresponding to a difference of 2.18% in attractiveness between women presented with a man, compared with alone, although this association was not significant (Table 3.ii). We also detected low to medium heterogeneity (37.01%; Table 3.ii) suggesting a higher level of consistency between sampling methods or effects than the 'addition of male cues' studies (meta-analysis (i)). However, this effect may have been driven primarily by the large effect size extracted from Hill and Buss (2008) (Fig. 2b). When this effect size was dropped and RMA was re-run, the overall negative effect was lost but was still not significant (model estimate = 0.0062; $p = 0.786$; Online Resource 8) suggesting that the original negative effect was most likely driven by one study (Hill and Buss 2008) and that there is no consistent strong effect of a male addition to women's attractiveness. Further, heterogeneity after the Hill and Buss (2008) effect size was removed was virtually non-existent ($I^2 = <0.0001\%$; $p = 0.994$) suggesting a high level of consistency between sampling methods or effects in the remaining studies.

Meta-Analysis (Iii) the 'Augmentation' of Female Cue: Female Choice

According to the model estimate of the RMA (Table 3.iii), the treatment group had a higher mean than the control group suggesting that women rate men as more attractive/desirable when they are in the presence of other women with more favorable characteristics. The positive effect revealed that women rate men 12.1% more attractive/desirable when in the presence of women with favorable characteristics. Despite the various characteristics utilized across studies (Fig. 3a), among-study variability was very low (a heterogeneity of $I^2 = 6.59\%$; $p = 0.443$) suggesting a high level of consistency between sampling methods or effects.

Meta-Analysis (Iv): The 'Augmentation' of Male Cue: Male Choice

Although the sample was very small ($n = 2$), both studies suggest women are rated as more attractive when in the presence of a male with favorable characteristics (Fig. 3b).

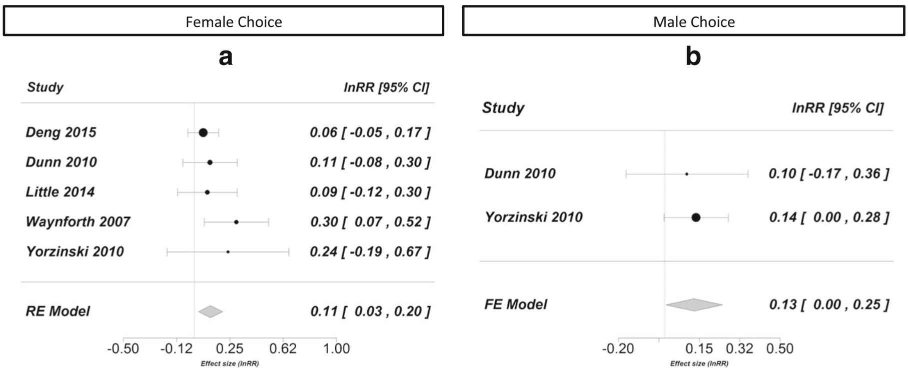

Fig. 3 Forest plots of effect sizes (*ln*RR) plotted against studies for **a** Female Choice/Female Augmentation iii and **b** Male Choice/Male Augmentation iv (created in *R*)

When run through a FEM, model estimates suggested that women were rated 13.8% ($p < 0.05$) more attractive when in the presence of males with more favorable characteristics (Table 3.iv).

Discussion

The systematic review and meta-analyses regarding 'addition of cues' MCC experiments revealed that women were more likely to alter their ratings of males in a way consistent with copying and sex differences in mate choice than men were to alter their ratings of women. However, the meta-analysis also revealed that when the mate quality of the stimulus is high, both men and women respond similarly providing support for the notion that the perceived preference of higher quality mates is copied to a greater extent than lower quality mates. Additionally, the results suggest that we cannot eliminate the possibility of mate choice copying effects among men choosing women.

It should be noted that the majority of studies that report 'addition of cue' MCC effects for male choosers measured rated attractiveness, whereas the studies that did not find MCC effects measured desirability (Hill and Buss 2008) and self-reported questionnaires (Vakirtzis and Roberts 2012a). Unlike rated attractiveness, these measures suggest the process of acting upon the evidence of another person's sexual interest rather than merely rating targets from a safe distance from potential competitors. When prompted to act on the choice (e.g. willingness to date) men may not give higher scores to target females due to reluctance to engage in any intra-sexual competition or fear of rejection. Conversely, this does not appear to be a deterrent for women, as they consistently rate the attractiveness of male targets higher when in the presence of a female.

Similar to the results of 'addition of cues' MCC studies, it is possible that men's increase in attractiveness response toward females with attractive opposite-sex others may be driven by competitive behavior. Eye-tracking studies have shown that men allocate more visual attention towards attractive male targets than less attractive male targets (DeWall and Maner 2008; Yorzinski and Platt 2010). Yorzinski and Platt (2010) also reported that men shifted their gaze between target females and the attractive males they were presented with. Further, a recent study by Winegard et al. (2017) found that men were more focused on signalling the quality of their female mates to other men than to other women in an attempt to signal higher status. These studies reflect that men were focusing on higher quality males due to intra-sexual competition, wherein the formidability of a potential rival in mate competition is assessed relative to the quality of a potential mate. It is possible that in these types of MCC experiments (i.e. augmentation of cues), male participants were focusing on rival males with potentially high quality or formidability and may infer that the paired female must also be of high quality. As such, men may be more willing to engage in competition if the outcome is more desirable and the increase in attractiveness/desirability of target female may be symptomatic of that response; however this has not been tested directly.

The amplification of attractiveness/desirability ratings from women towards target males with high quality opposite-sex others was not surprising. Within a natural setting, mate choice copying is thought to occur when it is hard to discriminate between high- and low-value mates (Nordell and Valone 1998; Pruett-Jones 1992) and when the benefits of doing so outweigh any potential costs (i.e. physical competition) (Dubois 2007). This is especially true for female choice as men's mate value involves assessing status beyond physical formidability (Geary et al. 2004); with the observed preferences of highly desired females being highly valued social information. By copying the preference of highly desired females, women could avoid substantial costs associated with directly searching and choosing a potential mate.

A few older studies have found that level of attractiveness of individuals within a couple influences personality judgments from onlookers (Bar-tal and Saxe 1976; Insko et al. 1973), with men ascribed more positive personality traits when paired with attractive women (Hartnett and Elder 1973). In contrast, personality traits of women are less likely to be influenced by the attractiveness of opposite-sex others (Insko et al. 1973); and more so by their own attractiveness. Taken together, it appears that men may benefit more than women from being presented with opposite sex others, especially if the 'others' are highly attractive; although, little is known as to how effective mate choice copying is as a reproductive strategy in men. By assessing the attitudes associated with mate choice copying, we may possibly gain a clearer understanding of how (or if) MCC leads to access to potential mates.

Limitations: Replication Issues and Potential Publication Bias.

Even though our meta-analyses did detect positive shifts in attractiveness/desirability in 'addition of cues' studies amongst women choosing men (i.e. meta-analysis (i)); the high level of heterogeneity and the results of the trim and fill analysis suggests that not only is there a lot of unaccounted variation between studies, but there may possibly be a moderate publication bias in favour of positive reports of mate choice copying. Further, the systematic review uncovered a possible file drawer effect in 'augmentation of cues' studies for female choice, as virtually no study reported non- significant results in MCC. In the light of the replication crisis in psychology (Baker 2016; Simmons et al. 2011; Stroebe and Strack 2014), the likelihood of the null hypotheses being unfairly rejected (type 1 error) may be higher than acceptable in our meta-analyses.

Mate choice copying is still relatively new to researchers studying human mate choice with no clear standardized method and considerable ambiguity regarding the classification of human MCC. As a result, more recent studies measuring MCC effects appear to be deviating from what traditionally constitutes a MCC effect (i.e. individual accepting a mate increasing when that mate has been seen, or inferred to have been chosen as a mate by others) and measuring suggestive factors such as attractiveness ratings from other people (Street et al. 2018) or popularity of the individual (Little et al. 2015). This is because it is difficult to know whether what is being characterized as MCC is merely the social transfer of mate preferences or the social transfer of attractive features (Sigall and Landy 1973; Vakirtzis 2011). Additionally, in non-human MCC studies; experimental methodologies (Dugatkin and Godin 1992; Galef et al. 2008; Galef and White 1998; Lafleur et al. 1997), the type of cue that reflects real mate choice (Dugatkin 1996a; Kraak 1996; Pruett-Jones 1992), and technical definition of copying (Kraak 1996) are heavily debated topics. It appears that human-focused studies have inherited the variation from non-human studies without the debate or disagreement, resulting in little consistency from study to study, making replication and comparison of results very complicated.

In order to understand the true nature of MCC, the non-human MCC literature may be able to provide assistance. For instance, MCC studies in humans only provide information at the pre-copulatory level, as no mating occurs (unlike MCC studies in non-human animals). True mate choice copying involves a copier interacting and possibly mating with the target of mate choice (Kraak 1996). Mate choice copying studies in humans do not assess this; however, studies in mate poaching and trait-based MCC may shed some light on the true nature of mate choice copying in humans.

Future Directions: Mate Choice Copying and Mate Poaching.

Mate poaching involves intentionally attracting an individual that is already in a romantic relationship (Davies et al. 2007; Schmitt and Buss 2001; Schmitt and Members Int Sexuality D 2004). Women report feeling more threatened than men do when their partner's physical appearance is complemented (Brown et al. 2014), while partnered men are more likely than partnered women to have extra-pair mates (Petersen and Hyde 2010; Schmitt and Members Int Sexuality D 2004). Tidwell and Eastwick (2013) also found that men (compared to women) in relationships were more willing to 'succumb to temptation' if a women attempted to poach them. Collectively, these results suggest that women should be more successful at poaching than men. However, previous studies have found that men in relationships were more likely to commit violent acts towards their partner and extra-pair mates (Buunk and Hupka 1987; Daly et al. 1982); which should theoretically restrict men and women from poaching, but paradoxically does not (Schmitt and Members Int Sexuality D 2004).

In a recent chapter by Adair et al. (2017) exploring the circumstances where mate poaching would take place rather than copying suggested that poaching would become more likely (in women) when there are no additional males of similar quality. When considering the results of the current meta-analysis, the likelihood of poaching may be correlated with the likelihood of copying (i.e. when female mate quality is high). If that is true, then the meta-support we report for MCC might be part of the psychological suite of adaptations for mate poaching. Studies of mate poaching behavior should take heed of the evidence of mate choice copying and the prediction that it might be part of the poacher's repertoire.

Future Directions: Trait-Based Copying

Throughout the current study, we have referred to one type of mate choice copying (i.e. individual-based copying). Another form of MCC involves selecting features or traits that are similar to those observed in a target (i.e. *someone like you*), which is termed 'trait-based copying' (Bowers et al. 2012; Dugatkin 1996b). A small number of studies have shown women that observe males coupled with attractive females (Little et al. 2008) or males receiving positive attention from females (Bowers et al. 2012), subsequently rate the attractiveness of males with similar traits higher than men with dissimilar traits of the original target. Traits ranged from facial features i.e. eye spacing (Little et al. 2011b) to clothing (Bowers et al. 2012).

This kind of copying is potentially important as it can change not only a mate-choice decision, but a long-term preference that might influence the strength of sexual selection on male traits (Gibson and Hoglund 1992; Kirkpatrick and Dugatkin 1994;

Wade & Pruett-Jones 1990), influence cultural evolution (Brooks 1998; Westneat et al. 2000), and feed into frequency-dependent preferences (Nordell and Valone 1998). Additionally, it is not clear if men engage in trait-based copying as they do with individual-based copying. While measuring trait-based preferences may be complicated, both Little et al. (2008) and Bowers et al. (2012) have shown it to be possible. Further, more need to be done to distinguish the two forms of mate choice copying as they may have differential consequences within populations.

Concluding Remarks

The current review and meta-analysis provides some support for the existence of mate choice copying effects within the limited experimental contexts that researchers have been able to ethically exploit. We have also, by considering the kinds of experimental approaches used, resolved the reasons for some of the among-study variation, particularly in studies where men rate women. Our search of the published research, particularly those studies preceding the advent of the term 'mate choice copying' in animal research, has demonstrated history of researching the same question under a variety of different names. The notion of 'mate choice copying' has newsworthy appeal and may be the kind of result that is considered more remarkable when significant affirmative evidence is found than when negative evidence is found. We urge researchers, referees and editors evaluating tests of mate choice copying in humans to both consider the differences between stimulus types we have outlined here, and to approach the possibilities of Type I and Type II errors with matching caution and skepticism in order not perpetuate file drawer effects or publication biases.

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Compliance with Ethical Standards

Conflict of Interest On behalf of all authors, the corresponding author states that there is no conflict of interest.

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First_Author	Mean_without	SD_without	Number_without	Mean_with
Anderson 2014	3.04	1.55	123	3.15
Bressen 2008	5.29	1.71	52	5.28
Bressen 2008 replicate by Fraizer 2015	4.76	1.71	263	4.41
Deng 2015	3.659	0.98	90	3.83
Dunn 2010	5.08	4.136	40	6.67
Eva 2006	2.96	0.58	38	3.65
Gouda-Vossos (Unpublished a)	45.76	20	62	44.78
Gouda-Vossos (Unpublished b)	56.27	21.36	113	55.6
Gouda-Vossos 2016	43.95	21.06	121	45.46
Hill 2007	3.63	1.172	159	4.72
Milonoff 2007	4.41	0.9	67	4.52
Parker 2009	0.3983	0.5859	97	0.5269
Rodeheffer 2016 exp 1	3.43	0.86	30	3.905
Rodeheffer 2016 exp 2	3.7	0.63	47	4.1
Uller 2002	4.185	0.13	97	3.905
Waynforth 2007	3.65	2.11	112	3.74
Yorzinski 2010	3.84	2.12	30	3.85

SD_with	Number_with	Design	No_of_Stim
1.52	121	Within	5
1.5	156	Between	12
1.5	263	between	12
0.98	90	Within	50
3.54	40	Between	12
0.55	38	Between	10
19.85	197	Between	9
21.71	128	Between	12
21.02	122	Between	18
0.656	159	Between	10
0.82	71	Between	10
0.7827	97	Within	1
0.64	74	Between	7
0.49	97	Between	7
0.125	97	Between	2
1.51	112	Within	112
2.27	30	Within	36

First_Author	Mean_without	SD_without	Number_without	Mean_with	SD_with
Dunn 2010	5.531	3.051	20	5.71	2.179
Gouda-Vossos (Unpublished a)	58.77	18.16	38	58.44	18.34
Gouda-Vossos (Unpublished b)	68.72	18.64	162	68.9	17.32
Gouda-Vossos 2016	50.81	23.07	132	52.49	21.69
Hill 2008	5.41	0.998	123	5.02	0.665
Parker 2009	1.02	0.516	87	0.984	0.5735
Yozinski 2010	3.92	2.29	30	4.02	2.29

Number_with	Design	Number of Stimuli/Images Used
20	Between	12
123	Between	9
141	Between	12
128	Between	17
123	Between	10
87	Within	1
30	Within	36

First_Author	Mean_negative	SD_negative	Number_negative	Mean_positive	SD_positive
Deng 2015	3.6	0.98	90	3.83	0.98
Dunn 2010	5.31	2.5	40	5.93	2.36
Little 2014	3.24	3.35	174	3.55	3.4
Waynforth 2007	3.056	2.11	112	4.11	2.11
Yorzinski 2010	3.3	2.12	30	4.18	2.31

Number_positive	Design	No_of_Stim
90	Within	120
40	Between	12
174	Between	20
112	Within	112
30	Within	36

First_Author	Mean_without	SD_without	Number_without	Mean_with	SD_with	Number_with
Dunn 2010	5.24	1.98	20	5.77	1.37	20
Yorzinski 2010	3.76	2.31	30	4.31	2.31	30

Design	Number of Stimuli/Images Used
Between	12
Within	30

Subject	1a	1b	1c	1d	2a	2b	2c	2d	3a
7		**50**						**35**	50
8	35					30			
9				55	35				
10		45			15				60
12	25					25			
13	25						5		
18				60				40	
22		40				15			
25		15						55	
26		25			40				
27		40			40				
28			50					35	45
29	65						45		
30	50				40				
31			30				40		
32		60				40			60
34				75				35	
35		40					50		
37	50						15		
38			45					20	
43			65			75			
44	50				15				45
45		55					55		
50				35		10			
51		50				30			
60			40				45		
62	55					25			
65	60				65				65
66				60		50			
68			55			45			45
73			30			20			
74				60			40		55
75	20					15			
76	70					30			
81			50		45				40
86		20				10			
88				65				40	60
90		45					25		25
94			45			30			55
96				25	20				
97				40				35	
99			55					10	
102			60					45	60
103			30				20		
105				20		30			
107				55		65			55
108			5				25		

109				60	45				
111			0.1			20			
117				55				50	
120	10						20		
121				10	5				
124		20					55		
125		50						25	30
129		60						35	
130				50			30		
133	20				35				
139			40		80				
140				30				5	5
144				5			5		20
145		45					40		45
146	25						10		
149			15		10				
150	50						35		
151		25					20		
153	20							35	
154			50			20			
155		20						15	
161		60			50				
162				30	20				
164			35			40			50
165		55				15			
166			45				30		
167		60					50		
168	50					50			50
169		75			15				30
172			55					45	
175			45					20	
177			30					35	
178	80						40		
179			30		20				30
180			10				15		
184				45				55	
188		0.1						0.1	
191	30							60	
192	30					0.1			
193		65			50				60
194			30			30			25
196		45				35			45
197		40			10				
199	75						70		
201		50				45			
205			0.1			0.1			
206			60			55			
207	55							55	

209		55			55				
210			35					25	
213	75						40		
221				15	10				
223			0.1			20			
226		75						50	
228				35			25		
229			40					25	
230			10					5	10
236				70			40		
241				45	40				35
242			0.1		0.1				
243		40			40				
249			55			30			
250			45		40				60
251			55			25			
252			50			40			
253		40				45			
254				35			35		
262				5			10		10
263			30					40	
264				65			60		
265	50							40	
266	25							5	
268				65	50				
269	40						25		
270			55		25				
273	45					40			
275	30						30		
278	10					15			
279				25	40				
280			45		40				
281			0.1		0.1				0.1
282	50					50			
283			60				35		
284				55		45			
287				25				25	
290	15							5	5
294		25				45			
295			15			15			
296			10			10			
297			40				40		
298				80				50	
299			60		20				
303				30		35			
304	55					40			
308			65				55		
309	35							35	

311		30			10				
313	50							20	
315		55				40			
316				30				45	
318		55						30	
319			55		35				40
320				55		35			
325	65							55	50
328				25				60	
330				5				5	0.1
334				20		10			
335		20				15			35
337	70							60	
338		35			70				25
340				35				30	
343				50				50	
345		40			25				
347			15			5			
348	40					15			
349				15				15	
350	75					50			80
355			45				60		
359				15			5		
360			40				70		50
361				35	35				
363		65						60	
365	30						30		
368				55			45		
369				55			45		
371			60				25		
372		40				65			
374		35					50		
375			25			40			
378	25				30				
380				25	20				
381		45					45		45
383				50			30		
384	45				25				
386			55		30				
387		75					65		65
393				45			10		20
396			30				30		30
397			55				40		
398		60			10				50
405			55				35		
412		45				30			
416		45				55			
420	60				50				60

427				55			60		25
432	50						40		
433		60					30		
434		60			45				
435		20			5				
437			30				25		
440				50			35		50
441			50			55			
445				20	10				
447		70			55				
450				30		30			
451			60		60				60
454			10				10		
455	65					65			70
457				70	60				
459			35		25				
460		45					35		45
465		55					15		
470			10			5			30
475	40							40	
476			15		20				
477		40				55			
485		70					15		45
486	25						25		
487	50					60			
492				70		10			
493		60				55			40
496	40						35		40
498			45		30				
503	75						55		
504		0.1			10				
509	40						55		
512	55				35				
514				70			55		
518		65						80	
519			50				50		45
521	50						40		55
523		35					15		10
525			30		15				10
526	55						60		60
529	60							20	
531			20				20		
533			35				25		
534			5		0.1				
535			20					35	
539		10				5			
540		80						40	
543				55	55				40

550				35			15		
555	20						5		
556	55						45		
562		40				50			
565				30				10	
566			60				50		50
568	60							20	
570				60	30				
575			55			40			
576			60					45	55
578	20						65		65
580	25					50			75
585		35					35		
586		65					60		
587	25				25				
589		50						40	
592	60					45			
595	80					20			
596	75							60	
597			10				10		
598	40					60			
Count	64	64	74	58	59	68	78	55	63
Average	45.390625	45.2375	36.62838	42.15517	31.10678	33.45882	35.25641	34.72909	42.066667

3b	3c	3d	4a	4b	4c	4d	5a	5b	5c
			40						
		45	65					55	
	55		65				30		
						50			40
15					15		35		
	10				55				
55					60				
		10	30				55		
60						25			
55			75				30		
		45		40					25
					55				50
55			55					25	
		45				50			50
45				55				35	
						50			
		50		45					55
	60		75						
		20		45					50
	35			70					65
	20				75				65
				60					20
	40		55				50		
		10			40		30		
		50			55				
	30				45		30		
		30		70				50	
			40						
		60		60					
						50	35		
	5					5			
			20					55	
	25			65					60
50				70			15		
			35				30		
15			40						
					60			80	
						35	30		
			65					5	
	25		35					40	
60				20			15		
	50					30			
			55						
30			30				25		
		30			50				
					45			70	
		25				15		50	

		50		35			25		
0.1						10			
35				15				30	
		25	60						40
	10			15			50		
	40			35				50	
				55					60
25				55			65		
		65			40			55	
		35	5					20	
	85				85			65	
				45			60		
					20				
						65			65
		10		30					40
20				55					
		40		45				70	
	20			65				50	
	60				50				40
20			35					50	
		20				55			
70				45					35
	10		50				35		
				40					50
	35			65			20		
		35		40				50	
	45			40					
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					30				
	25				50		60		
		25		85					
	45		15						
		65		55					
			45				50		
40				20			15		
50				55					
	10					20	0.1		
		35				45		40	
	5		10				5		
					55				50
				25					25
			60					60	
	40				30				35
		50		50				60	
50						20			
0.1				0.1					
	30					40	35		
	50					50			

30						45	40		
	20					50			60
55					70				50
		70			35				20
5			45				70		
40			70					40	
	25		30				10		
90			70					35	
					5				
		70		55					80
					35				
	0.1					20	10		
	35			55					
		60			45				10
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60				60					40
	35		55						55
		20				70			35
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		55				70			
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10						10		45	
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		60				45		35	
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30					55		70		
						25			45
		30			15			25	
	20				25				
	5		10				15		
		40			40				
55				65			60		
		30				40		50	
40					45				45
	45					65			35
75					60				70
		40		45			50		

50						20			
		40	60					20	
		60			75			75	
45			60						
		40				55		50	
			55						50
	50			55			60		
			65					65	
	25		50				70		
				5			60		
		10		45				10	
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		70	60				45		
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	30		35					70	
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		30		5					
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20					30				30
						75		35	
	65			45			55		
	15		25						15
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	60			70				40	
	60		50					75	
	30			30				30	
		50	50				50		
55						20		55	
45					45		70		
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		30		60			30		
45			65						65
40				40					60
		40				30			55
						55			
65					70				50
		35	80					55	
	40			40				80	
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			55						
	35				55				40
35				70					35
25				60					30
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55						20	40		
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	35		40						
		30			20		15		
	30			60			45		
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		35			65				30
50			70						65
	40			50			50		
						40	55		
		5				25	10		
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	60					35		10	
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35					65		50		
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		0.1				5			
	30		15						
		10			5				25
		60		35			30		
					60			60	

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		30			35				
		60			70			30	
		55			35			45	
		50	45						
			45				50		
		70		10			30		
		55			60				60
	40					45			40
			60					40	
			20					50	
					15			40	
	45			35					
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Female Alone	**58.77493**
Female w other	**58.43974**
SD Alone	**18.15871**
SD w other	**18.34012**

#	participant_id	Mc1	Mc2	Mc3	Mc4	Mc5
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6	676942	n/a	n/a	n/a	n/a	n/a
7	676945	n/a	n/a	n/a	n/a	n/a
8	676946	n/a	n/a	n/a	n/a	n/a
10	676948	60	75	n/a	20	n/a
11	676952	n/a	n/a	n/a	n/a	n/a
16	676963	n/a	n/a	n/a	n/a	n/a
18	676976	n/a	n/a	70	n/a	n/a
21	676983	n/a	n/a	n/a	40	n/a
23	676986	85	n/a	n/a	20	40
24	676988	n/a	n/a	n/a	n/a	n/a
31	677032	n/a	n/a	n/a	n/a	n/a
32	677035	n/a	n/a	n/a	n/a	n/a
36	677062	n/a	n/a	n/a	n/a	n/a
37	677065	65	10	n/a	n/a	n/a
39	677086	n/a	70	n/a	n/a	n/a
41	677097	n/a	n/a	n/a	n/a	n/a
42	677098	n/a	n/a	n/a	n/a	n/a
43	677102	n/a	n/a	n/a	n/a	n/a
44	677118	n/a	n/a	n/a	n/a	n/a
50	677478	n/a	n/a	n/a	n/a	n/a
52	677955	55	45	65	n/a	n/a
58	679936	n/a	n/a	n/a	n/a	n/a
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61	680155	n/a	40	0	n/a	25
62	680266	n/a	n/a	n/a	n/a	n/a
69	680930	n/a	n/a	n/a	n/a	n/a
72	681005	n/a	n/a	n/a	n/a	n/a
78	681267	65	n/a	n/a	n/a	n/a
80	681422	n/a	n/a	n/a	n/a	n/a
82	681458	n/a	n/a	n/a	n/a	n/a
86	687685	25	10	n/a	15	n/a
87	687693	n/a	n/a	n/a	n/a	n/a
92	689457	n/a	n/a	n/a	n/a	n/a
99	689658	n/a	n/a	n/a	n/a	n/a
100	689678	n/a	n/a	n/a	n/a	n/a
107	689823	n/a	n/a	n/a	n/a	n/a
114	690012	n/a	n/a	n/a	n/a	n/a
128	690173	n/a	35	n/a	40	n/a
129	690174	n/a	50	65	n/a	70
130	690175	n/a	n/a	n/a	n/a	n/a
131	690178	n/a	n/a	n/a	n/a	n/a
133	690197	55	n/a	n/a	55	55
136	690219	n/a	n/a	n/a	n/a	n/a
137	690225	n/a	n/a	n/a	n/a	n/a

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141	690240	65	n/a	50	n/a	n/a
148	690340	n/a	10	5	25	n/a
153	690373	n/a	n/a	n/a	n/a	n/a
161	690396	n/a	65	80	n/a	n/a
164	690411	80	95	40	80	n/a
165	690413	50	50	50	n/a	n/a
169	690429	n/a	55	n/a	n/a	45
177	690456	n/a	n/a	n/a	n/a	n/a
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180	690481	n/a	n/a	60	n/a	95
181	690500	n/a	60	60	45	60
182	691034	35	n/a	60	n/a	30
184	691218	n/a	n/a	n/a	n/a	n/a
185	691283	n/a	20	n/a	100	n/a
196	692100	90	60	n/a	55	n/a
197	694324	n/a	n/a	n/a	n/a	n/a
203	701771	n/a	80	n/a	75	n/a
207	704975	n/a	n/a	55	70	65
213	705500	n/a	35	n/a	n/a	80
214	705771	15	95	n/a	n/a	5
219	712230	n/a	n/a	n/a	n/a	n/a
222	712233	85	n/a	70	n/a	55
229	712241	85	n/a	65	80	70
235	712250	n/a	n/a	n/a	n/a	n/a
243	712277	n/a	n/a	n/a	70	70
244	712292	65	n/a	35	40	n/a
245	712310	n/a	n/a	n/a	n/a	60
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265	719281	n/a	85	n/a	n/a	n/a
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287	719305	n/a	n/a	n/a	n/a	n/a
296	719314	n/a	n/a	n/a	n/a	n/a
297	719315	n/a	n/a	n/a	n/a	n/a
298	719316	n/a	50	n/a	n/a	55
299	719317	60	n/a	60	15	45
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310	719331	n/a	n/a	n/a	n/a	n/a
311	719332	75	n/a	30	n/a	50
320	719341	n/a	n/a	n/a	55	n/a
321	719342	n/a	n/a	n/a	n/a	n/a

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330	719352	n/a	45	40	60	n/a
331	719353	75	65	n/a	30	55
332	719354	n/a	n/a	n/a	n/a	n/a
333	719356	n/a	n/a	n/a	n/a	n/a
336	719360	25	35	n/a	n/a	80
343	719367	n/a	n/a	n/a	n/a	n/a
345	719369	n/a	n/a	n/a	n/a	n/a
347	719371	65	n/a	75	90	75
362	719387	n/a	n/a	50	n/a	n/a
363	719388	n/a	n/a	n/a	n/a	n/a
364	719389	n/a	75	n/a	n/a	95
366	719391	n/a	n/a	n/a	n/a	n/a
369	719394	n/a	n/a	n/a	n/a	n/a
376	719402	n/a	n/a	85	60	35
387	719414	40	70	n/a	60	n/a
391	719418	n/a	n/a	n/a	n/a	n/a
395	719422	n/a	n/a	n/a	n/a	n/a
396	719423	n/a	n/a	n/a	n/a	n/a
403	719430	75	n/a	75	n/a	n/a
411	719438	n/a	65	n/a	45	n/a
414	719442	n/a	n/a	n/a	50	55
416	719445	n/a	n/a	n/a	n/a	n/a
417	719446	n/a	n/a	n/a	n/a	n/a
424	719453	n/a	n/a	n/a	n/a	n/a
425	719454	n/a	n/a	n/a	n/a	n/a
427	719456	65	n/a	n/a	65	n/a
432	719461	90	n/a	n/a	n/a	85
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443	719474	n/a	n/a	10	45	n/a
447	719479	n/a	n/a	n/a	n/a	n/a
453	719485	75	80	n/a	75	80
455	719487	n/a	n/a	n/a	n/a	n/a
458	719490	n/a	n/a	n/a	n/a	n/a
466	719499	n/a	n/a	n/a	n/a	n/a
468	719501	n/a	n/a	n/a	n/a	n/a
469	719502	n/a	25	30	n/a	n/a
476	719509	n/a	n/a	n/a	n/a	n/a
477	719510	n/a	n/a	n/a	n/a	n/a
480	719513	n/a	n/a	n/a	n/a	n/a
485	719519	45	n/a	45	35	n/a
514	719552	n/a	n/a	n/a	n/a	n/a
519	719558	n/a	n/a	n/a	n/a	n/a
522	719561	55	50	n/a	n/a	n/a

523	719562	n/a	n/a	50	55	65
524	719563	n/a	n/a	n/a	n/a	n/a
526	719565	70	50	45	n/a	65
528	719567	60	60	55	n/a	90
529	719568	n/a	n/a	n/a	n/a	n/a
531	719571	80	n/a	n/a	75	n/a
535	719578	n/a	n/a	n/a	n/a	n/a
537	719580	n/a	n/a	n/a	n/a	n/a
542	719586	n/a	n/a	n/a	n/a	n/a
552	719596	50	75	n/a	50	n/a
553	719597	n/a	35	30	25	n/a
556	719601	n/a	n/a	n/a	n/a	n/a
561	719606	n/a	n/a	n/a	n/a	n/a
563	719609	n/a	20	45	30	n/a
566	719613	75	n/a	60	60	n/a
567	719614	n/a	n/a	n/a	50	45
576	719624	n/a	50	n/a	50	60
578	719626	n/a	70	n/a	n/a	n/a
586	719635	n/a	n/a	n/a	n/a	n/a
593	719642	75	n/a	n/a	n/a	70
599	719649	n/a	n/a	n/a	n/a	n/a
600	719650	n/a	0	n/a	55	65
601	719651	n/a	n/a	n/a	n/a	n/a
608	719658	n/a	n/a	n/a	n/a	n/a
615	719665	n/a	n/a	65	40	30
623	719674	n/a	75	65	n/a	75
646	719700	n/a	n/a	n/a	n/a	n/a
648	719702	70	85	n/a	n/a	n/a
650	719704	n/a	n/a	n/a	n/a	n/a
660	719716	65	65	50	n/a	n/a
676	719735	n/a	n/a	n/a	n/a	n/a
677	719736	n/a	n/a	n/a	n/a	n/a
681	719741	n/a	n/a	n/a	n/a	n/a
682	719742	n/a	n/a	n/a	n/a	n/a
695	719755	n/a	n/a	n/a	n/a	n/a
697	719758	n/a	n/a	n/a	n/a	n/a
700	719761	75	n/a	n/a	65	n/a
702	719764	65	70	n/a	n/a	n/a
705	719767	n/a	n/a	n/a	n/a	n/a
706	719769	n/a	n/a	n/a	n/a	n/a
717	719782	n/a	40	60	30	n/a
718	719783	n/a	n/a	n/a	n/a	n/a
719	719784	n/a	n/a	n/a	n/a	n/a
734	719799	n/a	n/a	n/a	n/a	n/a
737	719802	n/a	60	n/a	40	50
752	719818	80	65	70	80	80

756	719823	n/a	n/a	n/a	n/a	n/a
758	719826	n/a	n/a	n/a	n/a	n/a
762	719831	n/a	n/a	n/a	n/a	n/a
763	719835	n/a	n/a	n/a	n/a	n/a
765	719837	n/a	90	n/a	n/a	80
768	719841	n/a	n/a	n/a	n/a	n/a
772	719847	n/a	n/a	20	n/a	80
773	719849	75	80	50	85	85
784	719871	80	50	n/a	70	80
789	719877	65	n/a	45	n/a	n/a
790	719878	35	n/a	n/a	80	45
796	719884	n/a	n/a	n/a	n/a	n/a
812	719901	60	n/a	80	n/a	55
815	719904	n/a	n/a	n/a	n/a	n/a
826	719916	n/a	n/a	n/a	n/a	n/a
829	719919	n/a	n/a	n/a	n/a	n/a
842	719933	n/a	45	n/a	50	45
848	719939	n/a	n/a	n/a	n/a	n/a
864	719956	n/a	n/a	n/a	n/a	n/a
866	719958	n/a	n/a	n/a	n/a	n/a
870	719966	n/a	75	n/a	n/a	n/a
872	719968	n/a	40	70	65	n/a
881	719977	n/a	n/a	n/a	n/a	n/a
893	719990	n/a	60	60	55	n/a
899	719998	n/a	n/a	n/a	n/a	n/a
905	720004	n/a	n/a	n/a	n/a	n/a
908	720007	n/a	n/a	n/a	n/a	n/a
912	720012	n/a	n/a	n/a	n/a	n/a
918	720023	n/a	n/a	n/a	n/a	n/a
919	720025	n/a	n/a	n/a	n/a	n/a
920	720027	n/a	n/a	n/a	n/a	n/a
924	720036	85	50	95	50	50
931	720047	n/a	n/a	n/a	n/a	n/a
935	720051	n/a	n/a	n/a	n/a	n/a
936	720052	n/a	n/a	n/a	n/a	n/a
943	720063	0	n/a	0	n/a	5
948	720070	55	n/a	60	n/a	n/a
950	720072	n/a	n/a	n/a	n/a	n/a
959	720082	n/a	n/a	85	n/a	n/a
961	720085	n/a	n/a	n/a	n/a	n/a
966	720094	n/a	n/a	n/a	n/a	n/a
973	720102	n/a	75	95	n/a	n/a
974	720104	n/a	n/a	n/a	n/a	n/a
982	720120	n/a	n/a	n/a	n/a	n/a
985	720127	45	70	n/a	45	n/a
995	720146	80	90	75	n/a	n/a

996	720147	n/a	n/a	n/a	n/a	n/a
998	720151	n/a	n/a	n/a	n/a	n/a
1001	720155	80	70	n/a	70	n/a
1004	720158	85	n/a	85	95	n/a
1008	720167	n/a	n/a	55	n/a	60
1014	720174	40	75	25	n/a	80
1022	720189	n/a	95	n/a	n/a	n/a
1024	720193	n/a	n/a	n/a	n/a	n/a
1026	720195	n/a	n/a	n/a	n/a	n/a
1034	720214	55	n/a	60	55	n/a
1036	720219	n/a	60	n/a	50	65
1037	720222	n/a	n/a	n/a	n/a	n/a
Means		63.090909	56.885246	54.017857	54.310345	60.408163
Overal Means						
SDs						

Mc6	Mc7	Mc8	Mc9	Mc10	Mc11	Mc12	Mb1	Mb2
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	20	n/a	10	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	50	n/a	60	40	n/a	n/a	40	70
40	n/a	n/a	60	50	30	n/a	50	60
n/a	n/a	75	n/a	n/a	n/a	15	n/a	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	n/a	60	50	n/a	30	n/a	n/a	n/a
n/a	90	n/a	85	95	n/a	n/a	40	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	50	n/a	n/a	50	35	45	n/a	n/a
35	n/a	65	n/a	n/a	30	n/a	55	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0	40	n/a	n/a	30	25	25	35	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
30	n/a	30	40	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
35	25	35	n/a	n/a	35	n/a	40	n/a
n/a	n/a	75	60	n/a	n/a	60	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	55	n/a	45	n/a	n/a	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

10	n/a	n/a	n/a	n/a	20	n/a	0	n/a
60	n/a	n/a	n/a	n/a	n/a	n/a	n/a	55
65	n/a	n/a	n/a	n/a	0	10	5	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	55	n/a	60	55	n/a	50	n/a
n/a	35	n/a	n/a	65	45	45	n/a	n/a
50	n/a	50	50	35	n/a	50	n/a	n/a
n/a	45	n/a	n/a	n/a	n/a	n/a	40	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	90	75	60	n/a	65	55	65
n/a	n/a	85	n/a	65	n/a	45	30	n/a
65	n/a	65	n/a	n/a	50	25	n/a	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
100	80	75	n/a	n/a	n/a	10	15	n/a
70	85	n/a	n/a	n/a	60	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	90	85	n/a	n/a	n/a	85	75	n/a
n/a	75	n/a	n/a	n/a	n/a	n/a	45	65
45	65	80	n/a	n/a	30	n/a	50	n/a
n/a	5	60	10	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	65	n/a	55	40	n/a	n/a	70
65	70	70	60	n/a	65	55	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	70	n/a	80	75	n/a	n/a	80	80
n/a	75	70	60	60	60	n/a	n/a	80
65	n/a	60	n/a	n/a	50	n/a	45	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
85	n/a	85	85	n/a	n/a	n/a	80	n/a
n/a	n/a	n/a	n/a	25	n/a	35	35	30
55	n/a	n/a	n/a	n/a	55	60	n/a	75
40	n/a	75	n/a	n/a	n/a	35	45	65
50	n/a	n/a	35	n/a	50	30	n/a	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	65	55	40	35	n/a	35	25	n/a
n/a	75	n/a	40	n/a	20	60	n/a	45
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	60	n/a	n/a	n/a	n/a	n/a	n/a	60
65	80	65	n/a	80	n/a	n/a	85	85
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

30	20	n/a	n/a	50	n/a	60	85	95
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	85	n/a	75	n/a	35	n/a	40	n/a
20	55	n/a	n/a	55	n/a	25	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	35	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	80	n/a	n/a	n/a	65	n/a	80
45	n/a	n/a	n/a	30	20	n/a	45	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	90	n/a	70	80	70	n/a	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	80	65	85	70	80	50
65	n/a	n/a	60	55	35	50	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	40	80	70	50	n/a	n/a	n/a	75
n/a	60	n/a	60	35	55	n/a	55	n/a
60	50	75	n/a	75	n/a	45	80	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	75	n/a	n/a	80	n/a	n/a	n/a	70
n/a	n/a	85	80	75	n/a	n/a	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	20	5	25	10	10	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	n/a	n/a	65	n/a	n/a	65	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	30	n/a	n/a	n/a	n/a	35	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	20	n/a	35	35	n/a	25
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	30	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a	n/a	60	n/a	45	55	10	60	35
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	50	n/a	50	60	45	50	n/a	n/a
n/a	n/a	n/a	80	n/a	65	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	80	n/a	n/a	n/a	75	75	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	60	n/a	n/a	n/a	55	n/a	n/a
n/a	n/a	n/a	n/a	45	n/a	35	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	45	n/a	n/a	80	n/a
40	n/a	45	80	55	50	65	n/a	80
85	n/a	75	n/a	n/a	40	40	70	85
50	n/a	n/a	n/a	n/a	60	n/a	60	n/a
n/a	85	85	n/a	90	n/a	n/a	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	80	90	n/a	n/a	80	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	n/a	n/a	n/a	n/a	n/a	n/a	35	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	40	n/a	n/a	55	n/a	30	55	65
n/a	n/a	75	n/a	80	n/a	70	70	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	70	n/a	80	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	70	85	60	n/a	60	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	85	85	n/a	70	75	70	n/a	75
n/a	55	n/a	n/a	n/a	n/a	50	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	40	n/a	60	45	30	30	50	40
55	n/a	55	65	35	35	n/a	40	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	55	50	45	45	55	n/a
85	n/a	n/a	n/a	n/a	75	n/a	n/a	n/a

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	65	75	40	n/a	25	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	90	n/a	n/a	55	n/a	80	95	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20	95	n/a	85	n/a	n/a	55	85	85
n/a	70	70	n/a	80	80	70	n/a	n/a
40	n/a	n/a	n/a	50	n/a	n/a	n/a	n/a
55	65	n/a	70	60	n/a	n/a	n/a	60
n/a	n/a	n/a	n/a	n/a	n/a	35	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	n/a	n/a	55	75	45	n/a	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	70	n/a	n/a	n/a	55	n/a	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	n/a	65	90	45	45	50	30	n/a
30	75	n/a	n/a	n/a	n/a	25	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	60	65	75	65	n/a	n/a	70	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	65	55	n/a	35	40	35	45
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	75	n/a	n/a	5	n/a	75	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0	n/a	15	0	0	n/a	0	n/a	0
70	n/a	n/a	n/a	50	n/a	75	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	90	70	75	60	60	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
25	55	50	n/a	n/a	20	n/a	35	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	45	n/a	n/a	n/a	45	n/a	n/a	n/a
60	70	n/a	n/a	60	n/a	70	n/a	n/a

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
35	60	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	90	90	n/a	n/a	n/a	n/a	75
50	75	55	60	60	n/a	55	70	70
45	n/a	95	n/a	n/a	50	n/a	n/a	n/a
30	75	n/a	60	n/a	60	65	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	65	80	75	n/a	n/a	n/a	90
50	15	n/a	n/a	n/a	n/a	n/a	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50.234375	62.115385	66.836735	60.8	55.701754	45.283019	47.982456	51.37931	65.673077

Mb3	Mb4	Mb5	Mb6	Mb7	Mb8	Mb9	Mb10	Mb11
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10	n/a	25	60	25	40	n/a	30	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	60	50	n/a	n/a	40	n/a	n/a	70
30	n/a	60	n/a	50	45	n/a	n/a	n/a
65	n/a	n/a	10	75	n/a	80	65	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	55	55	n/a	55	n/a	n/a	50	n/a
45	70	70	65	n/a	55	n/a	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	35	n/a	n/a	70	50	n/a	n/a
70	60	65	n/a	15	n/a	60	35	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	20	n/a	n/a	n/a	0	40	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	80	30	25	20	15	85	50	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
30	n/a	25	n/a	15	n/a	n/a	10	5
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	n/a	45	n/a	n/a	n/a	35	35	n/a
n/a	75	n/a	60	70	n/a	n/a	60	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	n/a	n/a	45	55	35	n/a	65	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a	5	5	n/a	5	15	15	15	n/a
n/a	60	70	n/a	55	50	60	55	55
n/a	n/a	25	n/a	5	15	10	30	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	55	40	30	55	n/a	65	n/a	n/a
n/a	n/a	60	50	n/a	40	45	n/a	n/a
n/a	70	50	n/a	50	n/a	n/a	n/a	50
40	45	n/a	60	n/a	55	65	70	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	85	n/a	80	45	n/a	n/a	n/a	100
n/a	n/a	n/a	40	65	n/a	80	n/a	65
n/a	55	n/a	n/a	70	n/a	50	30	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15	n/a	15	n/a	n/a	n/a	30	15	80
60	n/a	50	n/a	n/a	60	55	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
90	n/a	75	90	n/a	n/a	90	75	85
n/a	n/a	n/a	80	n/a	65	55	40	80
30	80	n/a	n/a	n/a	n/a	75	45	n/a
60	50	n/a	5	n/a	n/a	n/a	85	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	80	n/a	70	75	n/a	65	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	80	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	n/a	n/a	n/a	80	n/a	n/a	90
n/a	n/a	30	50	n/a	n/a	n/a	n/a	n/a
45	50	n/a	n/a	65	n/a	55	40	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	85	90	n/a	85	n/a	n/a	85	80
n/a	50	65	25	65	35	25	n/a	75
75	70	45	n/a	65	75	75	65	n/a
50	n/a	90	n/a	60	n/a	65	45	85
45	n/a	50	n/a	50	30	n/a	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	85	n/a	n/a	n/a	n/a	n/a	n/a	40
n/a	n/a	n/a	15	n/a	10	n/a	45	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	n/a	n/a	n/a	40	80	65	70
85	n/a	75	n/a	n/a	n/a	75	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a	n/a	95	n/a	n/a	75	95	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	90	n/a	n/a	60	n/a	55	n/a
55	n/a	n/a	n/a	n/a	35	75	n/a	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	60	n/a	25	55	75	n/a	35	35
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	65	85	n/a	75	80	85
n/a	65	75	n/a	50	20	90	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	85	n/a	n/a	n/a	75	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	35	70	75	n/a	n/a	n/a
45	n/a	65	n/a	45	55	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	40	20	65	n/a	n/a	n/a	n/a	35
50	n/a	90	60	n/a	35	n/a	n/a	n/a
75	n/a	n/a	n/a	n/a	n/a	65	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	n/a	85	70	n/a	65	70	n/a	85
80	70	n/a	90	85	n/a	n/a	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	55	30	20	25	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	n/a	n/a	n/a	65	70	n/a	60	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	30	55	50	35	n/a	20	25	45
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	30	40	50	40	n/a	45	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	60	50	n/a	n/a	30	45	40	50

n/a	n/a	n/a	15	50	n/a	30	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	55	n/a	n/a	n/a	60	n/a	n/a	n/a
n/a	55	n/a	65	30	50	n/a	40	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	80	n/a	n/a	75	75	75	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	n/a	80	45	n/a	n/a	50	70	65
n/a	n/a	60	45	40	30	35	n/a	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	80	35	90	40	20	n/a	95
n/a	n/a	80	n/a	50	n/a	n/a	n/a	n/a
75	n/a	n/a	n/a	35	n/a	65	25	n/a
65	n/a	n/a	n/a	55	50	55	70	n/a
70	15	25	10	n/a	n/a	30	n/a	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	80	n/a	n/a	80	n/a	n/a	85	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	n/a	n/a	n/a	80	55	40	5	20
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	50	n/a	65	70	n/a	55
n/a	80	n/a	70	70	n/a	80	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	60	75	70	60	n/a	70	n/a	85
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	45	75	45	55	n/a	n/a	n/a	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	85	80	n/a	n/a	75	n/a	n/a
50	60	55	60	n/a	50	50	50	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
30	50	50	n/a	n/a	35	n/a	n/a	n/a
n/a	n/a	70	n/a	65	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	n/a	n/a	45	45	55	n/a	n/a	n/a
n/a	n/a	n/a	n/a	75	70	70	85	n/a

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
25	55	60	40	35	50	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	70	n/a	n/a	n/a	70	85	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	85	n/a	n/a	n/a	45	n/a	40	50
n/a	n/a	n/a	85	n/a	n/a	70	n/a	n/a
60	n/a	n/a	n/a	50	40	60	n/a	30
n/a	75	80	n/a	n/a	60	n/a	n/a	75
25	n/a	n/a	40	45	75	60	55	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	75	n/a	n/a	85	35	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	n/a	n/a	70	n/a	40	55	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	75	80	n/a	35	n/a	n/a	n/a	n/a
n/a	n/a	50	n/a	n/a	40	50	50	30
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	80	n/a	n/a	n/a	n/a	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
30	80	75	50	45	n/a	n/a	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	50	50	n/a	20
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	45	n/a	n/a	25	n/a	n/a	n/a	0
n/a	75	95	n/a	70	60	75	n/a	95
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	45	50	40	35	35	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	75	n/a	n/a	n/a	40	55	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
85	n/a	100	n/a	n/a	65	60	65	n/a
n/a	85	95	n/a	n/a	65	90	n/a	95

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	n/a	65	n/a	n/a	45	75	55	75
n/a	n/a	95	70	95	n/a	n/a	100	90
n/a	65	n/a	n/a	n/a	n/a	n/a	n/a	65
n/a	80	n/a	n/a	75	n/a	65	30	n/a
85	30	100	n/a	n/a	15	n/a	45	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	90	70	40	n/a	n/a	n/a	55
5	n/a	n/a	n/a	n/a	45	55	20	10
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55.877193	61.636364	62.65625	50.816327	53.606557	48.046875	59.126984	51.160714	64.916667
								Average
								SD

Mb12	Mc1_Fc11	Mc1_Fc2	Mc1_Fc6	Mc1_Fb12	Mc1_Fb9	Mc1_Fb3	Mb1_Fc1	Mb1_Fc8
n/a								50
n/a								
n/a								
n/a								
30								
n/a								
n/a								
80								
35								
n/a								
n/a			65					
n/a								
n/a							50	
n/a				70				
60								
70								
n/a								50
n/a						65		
n/a								
n/a		60						
n/a								
n/a								
55								
n/a								
n/a								
n/a				60				
n/a								
n/a			75					
25								
n/a					80			
n/a								
15								
n/a								
n/a								
n/a								
n/a						55		
n/a			25					
n/a							35	
25								
n/a								
n/a				50				
n/a							75	
35								
n/a		85						
n/a								

10							
55							
n/a							
n/a	55						
50							
n/a							
n/a							
55							
n/a						35	
n/a		55					
n/a			65				
n/a							
n/a							
n/a							
n/a					65		
n/a							
50							
n/a				90			
n/a							
60							
55							
90							
n/a							
45							
n/a							
n/a						75	
85							
40							
45							
n/a							85
n/a					60		
70							
n/a							
n/a							
n/a							
n/a							
n/a							
n/a				15			
n/a		45					
n/a							
n/a							
n/a	35						
n/a							
45							
75							
n/a	65						

n/a								
n/a						45		
n/a							65	
70								
n/a								
n/a				80				
n/a				15				
60								
n/a					45			
n/a				60				
n/a								
25								
n/a								
75								
n/a	70							
n/a						75		
n/a								
n/a								
n/a		15						
n/a								
n/a						25		
45								
60								
n/a								
n/a				80				
n/a								
n/a								
n/a				80				
65								
85								
n/a				80				
n/a								
n/a								45
n/a								
n/a					60			
n/a								
n/a								60
n/a			90					
35								
n/a						90		
n/a					65			
n/a								
n/a								
n/a								
n/a							50	
30								

n/a								
n/a								
n/a								
35								
n/a								
n/a								
n/a								
n/a						45		
n/a				45				
n/a								
n/a								
n/a								
n/a	60							
55								
n/a								
n/a								
60								
20								
n/a								
n/a								
n/a								
0								
n/a								
n/a				90				
n/a								
n/a								
n/a			80					
65								
n/a							70	
n/a								
n/a								40
n/a			75					
n/a			75					
n/a						30		
n/a							80	
n/a			60					
n/a								
n/a								
n/a								
n/a								
35								
n/a								
n/a			15					
n/a								
n/a								
70								

n/a								45
60								
n/a								
n/a						65		
n/a								
n/a							70	
n/a								
n/a								
25								
55								
n/a								
n/a								
70								
n/a				40				
n/a								
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70								
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n/a					40			
n/a								
n/a								
n/a			65					
45								
n/a								
n/a								
n/a								
n/a								
n/a						20		
n/a		75						
n/a		65						
n/a								
n/a		85						
n/a						65		
n/a						85		
n/a								
n/a								
n/a			70					
n/a								
n/a						75		
n/a	40							
70								
n/a								
n/a							60	
75								
n/a								

n/a	35							
n/a								55
55								
80								
n/a								
40								
n/a								
n/a							100	
n/a								
55								
30								
n/a								
51.4285714286	51.428571	60.625	63.333333	61.071429	59.285714	56.666667	67.272727	49.285714

Male Alone

56.2868731563
21.3558741946

Mb1_Fc5	Mb1_Fb10	Mb1_Fb4	Mb1_Fb7	Mc2_Fc11	Mc2_Fc3	Mc2_Fc10	Mc2_Fb4	Mc2_Fb2
								80
		35						
	25							
65				55				
		60					65	
			55			75		
							50	
	40							
				50				
		50					85	
			60					
			35					
			55					
		30						
			60					
65								
50								
						55		
						85		
				60				
			15					55

65
20

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						45	
			70				
0							
							65
	40			75			
65							65
							25
				55			
			50				
					85		
							70
							65
	90					100	
		45		60			
				85			

			55					
			15					
	45							
							45	
						50		
70								
		20						20
35								
	50							55
							75	
								60
					70			
65								
		35						
			75			75		

25						40		
				80				
		55			45			
	70						70	
			25					
	70							
	5							
				90				
		70						
		60		85				
	75							
								65
						50		
				100				
						35		
					65			
0							5	
				65				

65

50 55

45.909091	50.454545	46.363636	46.071429	71.666667	60	57.727273	59.5	51.071429

Mc2_Fb1	Mb2_Fc8	Mb2_Fc6	Mb2_Fc9	Mb2_Fb5	Mb2_Fb7	Mb2_Fb12	Mc3_Fc8	Mc3_Fc9
40							25	
						80		
								40
			50					
70								
	35							
				55			40	
				50				
60								
			60					
			65					
			60					
		75						
				60				50
					30			
		55						55
		65						
55							45	
60								
		25						
						50	30	

25

35

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85 70

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75 55

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85 0

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40 40

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45 40

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65

75

80 80

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65 50

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35

80

95

0

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70

75

90

65 60

85 75

70 65

40

10

				60			50	
	90							
			100					100
60								
59.705882	62.777778	67.666667	65	55	58.888889	76.25	37.85714	48.33333

Mc3_Fc10	Mc3_Fb6	Mc3_Fb7	Mc3_Fb2	Mb3_Fc12	Mb3_Fc1	Mb3_Fc5	Mb3_Fb4	Mb3_Fb3	Mb3_Fb11
									55
									20
				50					
							55		
		75							
					60				
				60					
							30		
							50		
		65							
								45	
60									
30									
		55							
								60	
	70								
		30							
	65								
	55								
40									
							35		
						65			
			50						
					10				

75

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25

55

25									
			50						
		50							
43.88889	61.66667	47.35294	46	55	50.55556	55	54.54545	56.25	50

Mc4_Fc8	Mc4_Fc2	Mc4_Fc12	Mc4_Fb1	Mc4_Fb5	Mc4_Fb9	Mb4_Fc10	Mb4_Fc7	Mb4_Fc3	Mb4_Fb4
							80		
				35					
		70							
					35				
						40			
						55			
				70					
								85	
									65
	45								
					60				
					70				
			70						
									50
						65			
	55								
									55
									40
				30					
					65				
			40						
									55

65

70

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25

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85

65

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60

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35

45

							30		
									80
							100		
								60	
									65
70	49.64286	53.57143	49	59	50.3125	55.9375	66.66667	69.44444	54.64286

Mb4_Fb11	Mb4_Fb6	Mc5_Fc1	Mc5_Fc6	Mc5_Fc4	Mc5_Fb5	Mc5_Fb8	Mc5_Fb7	Mb5_Fc9	Mb5_Fc10
								80	
									80
75		60							
80				55					
70									40
			35						
								70	
	40								50
						30			
									50
	65		45						
	55								
80									
								70	
			75						
65									
30				65					
								75	
								75	
									55
								65	
		85							

55

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70 60

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55

75 95

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65 65

20 25

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						50		
		55						
	95							90
						40		
					75			
							80	
				10				
					55			
			75					
						40		
						85		
						30		
55		65						
								100
		65						
	55				60			
				45				
						5		
						50		

40

80

63.07692	62.85714	61.5	57.5	58	54	60	47.33333	70.83333	69.375

Mb5_Fc11	Mb5_Fb12	Mb5_Fb2	Mb5_Fb3	Mc6_Fc6	Mc6_Fc11	Mc6_Fc1	Mc6_Fb8	Mc6_Fb7	Mc6_Fb4
25									
								80	
									60
		55							
				65					
								60	
		60							
									35
	50								45
				45					
			65						
	55								
						75			
	40					45			
			60	40					
								50	
		80							
			70						
				75					
	30						5		
		50						25	

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70 50

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70 70

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55					20					
				40						
			100							
			60				60			
67.14286	60.625	60.55556	65.83333	52.8125	38.18182	65.55556	45	60.625		51.5

Mb6_Fc3	Mb6_Fc12	Mb6_Fc5	Mb6_Fb10	Mb6_Fb9	Mb6_Fb2	Mc7_Fc8	Mc7_Fc4	Mc7_Fc7	Mc7_Fb10
	85					85			
				40					
					15		30		
									75
							85		
35									65
45									
					50				
70									
			45						
20						45			
				40					
35								40	
			65						
		55							60
75									
									50
					65				
					45				
				45					
						80			
						25			

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					70				
					60				
				30					
		55							
	55							60	
				90					
	10								
									40
			0						75
15							20		
					30				
	70								
60									
						60			
		55				40			
				75					
		85							
75									
35									65
			90				100		
						60			
					40		85		

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									35
					100				
		45							
								75	
51.78571	54.44444	57	60.71429	56.78571	43.84615	59.23077	61.25	62.14286	66.53846

Mc7_Fb11	Mc7_Fb12	Mb7_Fc1	Mb7_Fc2	Mb7_Fc9	Mb7_Fb6	Mb7_Fb5	Mb7_Fb3	Mc8_Fc5	Mc8_Fc4
				25					
									85
				45				60	
				35					
		45							
					50				50
				50					
65									
					65				
	50							65	
				55					
		65							85
					70				
						60			
							30		
			35						
65									
35									
	50								
		40							
						80			80

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			55						
						50			
							45		55
100									
		40							
					75				
						35			55
	85								
						0		5	
			40						
					65				
							75		
	40								
							80		
				50					
						55			
						85			
				55					
70									
							0		55

			55						
					100				
85									
63.46154	55	51.36364	63.33333	46.15385	63.33333	54.09091	43.75	57.5	69.61538

Mc8_Fc3	Mc8_Fb9	Mc8_Fb8	Mc8_Fb12	Mb8_Fc11	Mb8_Fc10	Mb8_Fc6	Mb8_Fb2	Mb8_Fb1	Mb8_Fb7
									50
	50								
				20					
						50			
									50
	55								
		60							
								40	
	40								
				60					
							60		
							35		
	55								
				55					
						50			
			55						
		45							
			80						
					55				
80									
							55		
							25		
				20					
						5			
				20					

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							65		
			45						
		100							
	75								
		75							
52.14286	59.61538	57	54.09091	46.92308	50	40.71429	51.92308	52.5	61.42857

Mc9_Fc12	Mc9_Fc7	Mc9_Fc9	Mc9_Fb5	Mc9_Fb3	Mc9_Fb10	Mb9_Fc4	Mb9_Fc6	Mb9_Fc2	Mb9_Fb1
						60			
				35					
					50				
			50						
50									
					45				
					60				
									50
									75
		55							
			65						
							30		
						65			
				50					
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55									
						30			
				70					
		40							
					55				
		50							
						50			
				85					
							10		

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75
65
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50

								80	
						70			
		70							
				60					
50	55	50.83333	53.125	63.33333	59.23077	55.83333	51.66667	55	56.92308

Mb9_Fb11	Mb9_Fb8	Mc10_Fc1	Mc10_Fc1	Mc10_Fc5	Mc10_Fb1	Mc10_Fb1	Mc10_Fb2	Mb10_Fc7	Mb10_Fc3
		45							
35									
50						50			
					65				
									45
						65			
				30					
							40		
	75								50
40							25		
		75							
						45			
						60			
					35				
								60	
							70		
						75			
55			65						
		55							
		40							
60									
						70			
			70						
	40			30					

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		35							
					65				
							35		
	65					15			
							75		
55					60				
	55								
						75			
						35			
				0					
							25		
	75			45					
	70						65		
			30						
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							50		
				40					
				55					
85				95					
						40			
	100								100

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								60	
100				100					
									45
63.57143	70.45455	54.16667	52	52.35294	51.25	56.66667	57.85714	62	52.77778

Mb10_Fc4	Mb10_Fb8	Mb10_Fb9	Mb10_Fb6	Mc11_Fc3	Mc11_Fc9	Mc11_Fc2	Mc11_Fb6	Mc11_Fb1	Mc11_Fb1
									60
		35							
		80		80					
		85							
					45				
				65					
						35			
								45	
				40					
								50	
40				65					
	40			15					
									35
70									
			30						
								55	
									50
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							20		
	85								
					15				

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65 50

90 75

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20 80

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90 45

5 20

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55 60

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80 75

60 25

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70 35

40

	50			40				
					65			
				50				
					40			
						20		
				0				
							50	
		75					70	
							30	
40								10
					40			
55						80		
	65							
			10					
		60						

			75						
		85						75	
58	55	56.11111	58.18182	49.28571	42.5	51	47.5	47.30769	41.25

Mb11_Fc8	Mb11_Fc7	Mb11_Fc4	Mb11_Fb5	Mb11_Fb1	Mb11_Fb1	Mc12_Fc5	Mc12_Fc1(	Mc12_Fc7	Mc12_Fb4
		35							
							20		
					90				65
									70
							35		
				50					
60									
		65						35	
	70							35	
						40			
	85								
								50	
65									
		70							
	30								
	70							30	
						45			
	55								
		60					25		
60									
					80				75
			40						

5

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60 55

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90 70

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45 60

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25 15

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90 55

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85

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80 25

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20

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80 80

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75

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60 65

15

80 65

25

50

95

50

30

75 75

90

70

25

80

60 45

65

65

40

70 60

70

0

75

60								25	
			60						
				100		100			
						65			
55									
62.5	68.07692	56.42857	60.45455	66.25	61.5	53.63636	41.875	46.25	54.375

Mc12_Fb6	Mc12_Fb3	Mb12_Fc1	Mb12_Fc1	Mb12_Fc2	Mb12_Fb8	Mb12_Fb9	Mb12_Fb1	Participant Sex
						80		Female
							10	Female
								Female
								Female
								Female
							75	Female
								Female
								Female
								Female
								Female
								Female
					55			Female
40								Female
						30		Female
								Female
								Female
	40							Female
		45						Female
								Female
								Female
		55						Female
								Female
								Female
								Female
								Female
			65					Female
								Female
		60						Female
								Female
						55		Female
	50							Female
								Female
						65		Female
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			55					Female
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		45						Female
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					60			Female
			15					Female

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			35			Female
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			35			Female
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			25			Female
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	85					Female
						Female
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10						Female
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						Female
						Female
					80	Female
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		15				Female
				40		Female
						Female
						Female
			15			Female
			45			Female
						Female
						Female
		60				Female

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					65			Female
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	65							Female
		35						Female
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					45			Female
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							55	Female
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			45					Female
						35		Female
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		70						Female
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				75			Female
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			60				Female
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					70		Female
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						Female
				60		Female
			0			Female
				45		Female
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				70		Female
						Female
				70		Female
						Female
						Female
					80	Female
	45					Female
40						Female
						Female
						Female
75						Female
	65					Female
			60			Female
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						Female
				45		Female
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		45				Female
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						Female
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75	Female
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	Female
	Female
	Female
50	Female

53	46.875	55	43.33333	48.75	50	53	65.625

	Male w other
Average	**55.59245**
SD	**21.71343**

#	participan	Fc1	Fc2	Fc3	Fc4	Fc5	Fc6	Fc7	Fc8
1	675454	75	n/a	90	90	75	n/a	75	n/a
4	676921	n/a	85	n/a	85	65	65	70	n/a
9	676947	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15	676960	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
22	676985	n/a	n/a	85	n/a	75	30	n/a	40
25	677004	n/a	70	n/a	n/a	n/a	n/a	n/a	n/a
26	677005	85	n/a	n/a	80	n/a	n/a	n/a	45
45	677215	75	n/a	75	n/a	n/a	n/a	n/a	n/a
46	677216	80	n/a	n/a	85	65	60	n/a	n/a
49	677230	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
51	677627	n/a	40	n/a	n/a	n/a	55	n/a	65
54	678911	n/a	95	n/a	n/a	n/a	100	n/a	50
55	679369	60	55	60	60	n/a	55	n/a	n/a
59	680133	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
66	680894	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
68	680912	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	680946	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
74	681018	90	n/a	85	n/a	70	n/a	70	n/a
76	681231	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
84	686894	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
91	689001	n/a	70	70	65	75	60	50	n/a
94	689646	n/a	60	75	70	70	n/a	n/a	n/a
97	689655	n/a	n/a	70	75	n/a	n/a	n/a	n/a
98	689657	n/a	n/a	85	n/a	60	n/a	20	45
102	689712	85	n/a	n/a	n/a	70	35	n/a	65
103	689716	n/a	80	50	n/a	n/a	n/a	n/a	n/a
104	689721	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
108	689833	n/a	n/a	n/a	75	55	50	60	45
109	689894	25	n/a	n/a	n/a	10	0	50	50
111	689939	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
113	690008	85	n/a	n/a	85	n/a	80	n/a	n/a
116	690019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
117	690028	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
118	690031	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
121	690069	n/a	70	60	75	80	55	n/a	n/a
125	690120	n/a	85	80	80	65	80	65	75
135	690216	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
139	690236	n/a	n/a	75	85	n/a	35	35	n/a
142	690241	n/a	n/a	55	45	50	n/a	40	n/a
143	690246	n/a	70	85	85	75	50	n/a	70
151	690368	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
152	690370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
156	690378	85	n/a	n/a	85	85	n/a	n/a	n/a
158	690386	n/a	n/a	70	70	n/a	n/a	30	60
168	690427	n/a	60	n/a	n/a	55	n/a	55	40

170	690431	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
173	690450	n/a	65	n/a	n/a	75	n/a	n/a	70
176	690455	n/a	35	n/a	n/a	60	40	35	35
186	691288	90	n/a	95	60	80	n/a	65	55
187	691343	n/a	n/a	85	n/a	70	65	n/a	45
191	691524	75	75	75	n/a	n/a	n/a	n/a	n/a
193	691534	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
194	691542	80	65	75	n/a	60	n/a	45	n/a
199	696567	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
204	702137	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
206	704974	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
208	704979	65	30	n/a	10	30	n/a	30	n/a
212	705374	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
215	705993	n/a	85	75	90	75	n/a	n/a	n/a
217	712228	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220	712231	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221	712232	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
224	712235	85	85	90	n/a	n/a	75	n/a	80
225	712236	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
227	712238	90	95	n/a	85	n/a	80	90	90
228	712240	90	n/a	90	n/a	80	n/a	60	75
230	712242	n/a	80	80	n/a	n/a	n/a	65	n/a
234	712246	n/a	n/a	95	n/a	n/a	50	n/a	55
238	712254	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
247	712332	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
250	719264	90	100	n/a	n/a	90	n/a	n/a	n/a
252	719266	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
254	719268	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
255	719269	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
258	719273	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
266	719282	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
267	719283	n/a	n/a	65	95	n/a	65	80	n/a
269	719285	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
271	719287	n/a	n/a	n/a	80	50	n/a	n/a	n/a
276	719293	85	n/a	90	n/a	75	n/a	n/a	n/a
292	719310	n/a	90	n/a	n/a	55	85	n/a	70
293	719311	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
295	719313	n/a	80	85	80	90	90	90	80
301	719320	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
305	719325	100	n/a	n/a	85	95	85	65	n/a
306	719326	100	n/a	n/a	100	n/a	n/a	100	100
307	719328	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
308	719329	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
314	719335	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
316	719337	85	80	n/a	n/a	75	60	90	n/a
323	719344	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

324	719345	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
326	719347	n/a	n/a	n/a	45	n/a	15	30	n/a
334	719357	80	n/a	80	75	n/a	n/a	40	45
337	719361	90	n/a	n/a	90	90	90	n/a	90
338	719362	95	95	95	n/a	n/a	n/a	95	n/a
341	719365	n/a	75	70	n/a	60	n/a	n/a	75
342	719366	n/a	75	55	n/a	n/a	n/a	n/a	70
344	719368	75	n/a	70	75	n/a	50	n/a	n/a
346	719370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
350	719374	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
351	719375	n/a	n/a	n/a	n/a	70	65	55	n/a
354	719378	75	65	n/a	75	n/a	n/a	n/a	n/a
356	719380	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
358	719382	n/a	n/a	80	n/a	n/a	n/a	80	n/a
359	719383	90	n/a	85	95	n/a	n/a	n/a	65
360	719384	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
365	719390	80	n/a	90	75	n/a	n/a	n/a	75
367	719392	n/a	55	n/a	95	60	n/a	90	80
371	719397	n/a	n/a	70	n/a	65	n/a	60	n/a
373	719399	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
375	719401	n/a	80	n/a	90	70	70	80	90
379	719405	n/a	65	n/a	n/a	95	85	65	85
380	719406	n/a	n/a	70	n/a	40	70	n/a	85
381	719408	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
384	719411	n/a	n/a	65	55	n/a	n/a	20	50
386	719413	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
389	719416	n/a	95	100	n/a	80	n/a	90	100
392	719419	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
402	719429	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
418	719447	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
422	719451	90	n/a	n/a	85	n/a	75	80	90
428	719457	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
429	719458	75	n/a	100	n/a	60	n/a	100	100
434	719464	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
441	719472	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
445	719477	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
449	719481	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
450	719482	n/a	n/a	80	70	75	60	70	n/a
461	719493	90	80	n/a	100	n/a	n/a	n/a	70
462	719494	80	75	90	90	70	n/a	n/a	n/a
463	719495	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
467	719500	n/a	n/a	n/a	80	75	n/a	85	n/a
470	719503	n/a	n/a	80	n/a	n/a	50	60	80
474	719507	n/a	n/a	55	n/a	75	n/a	70	80
479	719512	100	100	95	75	70	80	n/a	75
483	719517	n/a	n/a	80	n/a	n/a	30	n/a	n/a

486	719520	n/a	95	80	n/a	85	90	n/a	90
487	719521	n/a	80	90	95	n/a	n/a	100	95
488	719523	75	n/a	65	70	55	65	n/a	n/a
489	719524	n/a	n/a	n/a	n/a	n/a	n/a	55	n/a
496	719533	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
498	719535	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
499	719537	65	80	n/a	n/a	60	n/a	n/a	65
500	719538	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
501	719539	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
502	719540	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
515	719553	n/a	n/a	85	80	n/a	70	95	n/a
516	719554	80	n/a	80	65	45	n/a	n/a	60
533	719574	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
539	719583	n/a	n/a	65	n/a	70	55	n/a	n/a
543	719587	90	n/a	n/a	90	n/a	n/a	70	80
544	719588	n/a	80	95	95	75	n/a	70	n/a
547	719591	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
557	719602	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
560	719605	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
570	719617	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
571	719618	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
574	719622	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
583	719632	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
584	719633	n/a	n/a	n/a	75	65	65	n/a	60
588	719637	95	n/a	90	75	90	55	n/a	n/a
589	719638	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
602	719652	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
606	719656	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
607	719657	n/a	n/a	n/a	100	n/a	n/a	n/a	5
609	719659	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
611	719661	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
626	719679	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
627	719680	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
632	719686	n/a	n/a	90	n/a	n/a	n/a	n/a	70
633	719687	70	n/a	80	n/a	55	n/a	55	n/a
635	719689	n/a	n/a	n/a	n/a	90	70	45	95
636	719690	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
637	719691	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
638	719692	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
640	719694	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
641	719695	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
647	719701	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
652	719708	n/a	n/a	90	n/a	n/a	n/a	n/a	n/a
656	719712	55	n/a	40	85	n/a	n/a	n/a	75
665	719722	95	80	85	65	60	n/a	60	90
666	719723	85	80	n/a	90	n/a	70	n/a	85

667	719725	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
668	719726	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
670	719728	n/a	n/a	90	95	n/a	n/a	90	n/a
671	719730	85	65	90	n/a	75	n/a	90	n/a
673	719732	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
674	719733	90	n/a	n/a	n/a	n/a	85	95	85
675	719734	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
686	719746	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
687	719747	60	n/a	n/a	75	n/a	65	85	n/a
688	719748	100	n/a	80	n/a	n/a	80	n/a	n/a
689	719749	90	80	n/a	n/a	n/a	n/a	n/a	75
692	719752	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
693	719753	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
694	719754	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
696	719756	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
698	719759	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
699	719760	50	60	n/a	n/a	n/a	55	70	n/a
701	719762	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
707	719770	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
709	719772	55	70	80	n/a	70	40	75	n/a
711	719775	n/a	n/a	100	n/a	70	30	n/a	85
714	719778	n/a	85	60	85	65	n/a	n/a	80
720	719785	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
722	719787	80	80	n/a	n/a	70	55	n/a	70
723	719788	90	n/a	95	85	35	n/a	n/a	65
731	719796	100	100	100	100	100	n/a	100	100
733	719798	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
736	719801	n/a	75	55	70	60	n/a	90	n/a
738	719803	n/a	n/a	100	n/a	85	n/a	90	n/a
740	719805	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
743	719808	n/a	90	90	n/a	85	n/a	35	n/a
745	719810	75	n/a	75	n/a	70	n/a	75	n/a
746	719812	75	60	70	n/a	n/a	65	45	n/a
748	719814	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
750	719816	n/a	75	n/a	n/a	80	65	80	70
760	719828	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
767	719839	n/a	n/a	n/a	55	n/a	n/a	55	n/a
770	719845	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
771	719846	85	95	n/a	95	n/a	n/a	n/a	n/a
775	719853	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
779	719862	90	85	n/a	95	65	n/a	60	75
781	719865	70	70	n/a	65	70	n/a	65	65
786	719873	90	0	80	80	75	n/a	90	75
791	719879	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
798	719886	n/a	75	90	80	90	n/a	n/a	75
800	719888	n/a	n/a	n/a	n/a	55	55	55	n/a

803	719891	n/a	n/a	n/a	95	85	80	70	n/a
804	719892	n/a	n/a	n/a	n/a	n/a	40	40	55
806	719894	n/a	n/a	n/a	65	50	n/a	n/a	70
808	719897	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
810	719899	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
814	719903	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
816	719905	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
818	719907	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
824	719913	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
825	719914	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
828	719918	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
830	719920	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
833	719924	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
834	719925	75	n/a	n/a	n/a	80	40	n/a	85
837	719928	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
839	719930	n/a	60	n/a	n/a	75	n/a	70	80
847	719938	n/a	90	n/a	n/a	n/a	n/a	90	95
855	719947	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
856	719948	n/a	n/a	85	80	n/a	n/a	n/a	n/a
858	719950	n/a	85	90	n/a	70	n/a	65	n/a
859	719951	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
861	719953	70	n/a	n/a	n/a	75	n/a	n/a	85
868	719962	n/a	100	n/a	95	n/a	n/a	95	80
871	719967	n/a	n/a	n/a	n/a	85	65	90	n/a
873	719969	80	80	n/a	80	n/a	n/a	n/a	85
875	719971	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
878	719974	n/a	70	80	n/a	n/a	75	n/a	n/a
880	719976	n/a	65	n/a	60	65	n/a	55	85
883	719979	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
889	719985	n/a	60	n/a	75	65	n/a	25	n/a
890	719986	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
891	719987	70	65	n/a	n/a	n/a	n/a	55	80
892	719988	90	65	55	n/a	65	n/a	n/a	65
897	719996	n/a	80	100	n/a	n/a	n/a	n/a	70
902	720001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
903	720002	65	n/a	70	n/a	n/a	60	n/a	n/a
907	720006	n/a	n/a	n/a	75	n/a	n/a	55	70
910	720010	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
913	720013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
914	720014	25	25	15	n/a	n/a	n/a	10	n/a
922	720034	n/a	n/a	80	n/a	70	n/a	85	90
923	720035	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
927	720040	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
932	720048	70	70	55	n/a	n/a	15	n/a	40
938	720055	85	65	55	75	n/a	85	n/a	80
942	720061	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

944	720064	n/a	70	75	60	n/a	45	n/a	n/a
946	720068	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
957	720080	60	70	n/a	75	75	n/a	70	n/a
962	720086	65	70	n/a	n/a	70	65	60	70
968	720097	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
969	720098	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
975	720105	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
977	720109	50	n/a	n/a	n/a	45	n/a	45	n/a
979	720113	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
980	720115	n/a	n/a	60	75	n/a	n/a	n/a	70
981	720117	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
984	720123	n/a	n/a	90	80	n/a	70	n/a	85
987	720133	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
990	720139	75	75	n/a	80	n/a	n/a	n/a	n/a
993	720144	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
999	720153	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1002	720156	90	95	95	n/a	90	90	85	95
1003	720157	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1005	720160	n/a	70	80	55	70	n/a	65	25
1006	720161	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1013	720170	n/a	n/a	n/a	65	n/a	65	70	n/a
1019	720186	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1020	720187	n/a	70	n/a	n/a	n/a	35	n/a	60
1021	720188	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1025	720194	n/a	n/a	n/a	n/a	80	80	n/a	80
1027	720198	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1030	720204	85	n/a	90	80	95	n/a	90	90
1031	720209	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Means		79.05405	73.73418	78.51648	78.13253	69.83871	61.28571	66.55172	71.79775

Overal Means
SDs

Fc9	Fc10	Fc11	Fc12	Fb1	Fb2	Fb3	Fb4	Fb5	Fb6
n/a	80	85	n/a	n/a	70	n/a	n/a	n/a	60
65	70	n/a	n/a	80	n/a	80	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	n/a	80	80	35	70	n/a	75	n/a	n/a
70	n/a	n/a	n/a	75	n/a	70	35	85	20
n/a	70	n/a	85	n/a	65	75	n/a	65	50
75	65	55	65	n/a	75	n/a	70	60	60
70	75	60	n/a	n/a	65	80	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	45	n/a	20	n/a	65	50	55	n/a
n/a	70	70	n/a	60	n/a	95	65	35	n/a
n/a	60	60	60	n/a	n/a	n/a	n/a	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	n/a	85	n/a	90	n/a	80	n/a	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	n/a	n/a	n/a	55	n/a	n/a	n/a	n/a	n/a
n/a	65	n/a	n/a	80	n/a	n/a	n/a	n/a	45
80	65	n/a	n/a	60	70	n/a	n/a	60	45
90	n/a	n/a	n/a	10	55	n/a	50	n/a	40
n/a	40	40	70	n/a	45	55	45	n/a	n/a
n/a	n/a	n/a	75	80	n/a	n/a	65	70	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	55	50	70	60	60	65	n/a	n/a	n/a
25	15	15	n/a	n/a	35	50	25	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	n/a	80	n/a	90	90	n/a	75	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	80	55	n/a	70	n/a	n/a	n/a	n/a	n/a
n/a	80	n/a	60	70	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	60	n/a	90	40	60	n/a	n/a	55	n/a
45	n/a	n/a	n/a	30	55	n/a	n/a	n/a	40
n/a	60	60	n/a	85	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	n/a	60	n/a	n/a	90	75	n/a	n/a	55
n/a	50	n/a	70	70	60	n/a	n/a	30	30
n/a	n/a	n/a	n/a	60	n/a	60	40	n/a	45

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	n/a	n/a	75	75	n/a	70	65	n/a	60
35	60	60	n/a	70	n/a	60	70	n/a	n/a
n/a	n/a	n/a	n/a	n/a	55	n/a	n/a	n/a	20
n/a	65	n/a	n/a	55	60	n/a	50	n/a	n/a
70	n/a	n/a	n/a	n/a	n/a	n/a	80	80	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	55	n/a	n/a	n/a	n/a	50	n/a	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	5	30	60	n/a	n/a	25	n/a	n/a	5
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	55	n/a	n/a	50	n/a	n/a	n/a	n/a	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	80	85	n/a	n/a	n/a	85	80	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	90	n/a	n/a	85	n/a	80	n/a
75	n/a	n/a	75	n/a	90	n/a	65	n/a	75
n/a	n/a	60	75	95	n/a	n/a	70	65	70
75	n/a	75	n/a	70	85	n/a	85	65	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
90	95	90	n/a	n/a	n/a	95	90	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	75	55	80	n/a	n/a	80	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	n/a	70	50	55	60	n/a	n/a	55
n/a	85	60	60	n/a	90	n/a	80	n/a	50
n/a	n/a	n/a	80	85	n/a	90	45	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	85	n/a	70	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	n/a	n/a	n/a	n/a	75	90	n/a	n/a	n/a
n/a	n/a	90	n/a	n/a	100	100	n/a	100	100
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	85	80	90	n/a	n/a	90	80	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
90	n/a	65	n/a	45	50	50	n/a	50	n/a
n/a	60	n/a	n/a	n/a	60	n/a	n/a	70	70
90	n/a	n/a	n/a	n/a	95	95	n/a	n/a	n/a
95	n/a	95	n/a	n/a	n/a	n/a	95	95	90
70	60	n/a	70	70	n/a	n/a	70	n/a	70
55	n/a	65	60	40	n/a	n/a	45	35	40
n/a	60	70	75	n/a	60	n/a	n/a	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
65	n/a	75	35	60	60	70	65	n/a	n/a
65	65	45	80	n/a	n/a	70	n/a	60	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	n/a	n/a	75	70	n/a	60	55	70
n/a	60	n/a	n/a	n/a	70	n/a	n/a	50	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	85	n/a	n/a	80	n/a	n/a	80	75
n/a	80	15	n/a	65	n/a	75	n/a	n/a	10
n/a	n/a	n/a	n/a	60	80	n/a	80	n/a	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	75	n/a	n/a	75	n/a	80	n/a	n/a	n/a
n/a	70	70	n/a	70	n/a	80	80	n/a	n/a
85	n/a	70	90	40	80	n/a	95	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	60	20	70	n/a	n/a	65	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	85	n/a	n/a	95	n/a	n/a	90	n/a	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	85	90	n/a	80	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	100	100	75	n/a	100	n/a	100	n/a	100
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	60	n/a	65	70	n/a	n/a	n/a	n/a
85	90	70	80	n/a	n/a	100	n/a	70	70
80	75	n/a	80	n/a	n/a	n/a	n/a	n/a	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	80	n/a	n/a	75	80	80	n/a	n/a	70
60	n/a	50	75	75	70	n/a	85	55	n/a
65	n/a	n/a	n/a	65	60	n/a	65	n/a	70
90	n/a	n/a	90	n/a	n/a	n/a	n/a	n/a	n/a
35	n/a	n/a	n/a	40	75	n/a	60	55	n/a

n/a	n/a	n/a	n/a	60	n/a	n/a	65	n/a	n/a
80	n/a	70	95	100	n/a	n/a	n/a	80	85
70	n/a	n/a	75	n/a	95	n/a	n/a	n/a	n/a
55	n/a	50	n/a	75	60	70	65	45	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	55	50	65	n/a	n/a	70	80	n/a	30
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	n/a	90	80	90	n/a	n/a	80	n/a
80	65	70	80	n/a	65	n/a	n/a	n/a	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	60	40	70	70	75	n/a	60	n/a	n/a
n/a	95	95	n/a	n/a	95	95	n/a	90	95
n/a	n/a	n/a	100	80	n/a	n/a	n/a	n/a	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	70	65	75	60	60	65	n/a	n/a	n/a
n/a	65	75	n/a	n/a	75	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15	n/a	5	n/a	100	75	100	n/a	5	15
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	70	80	n/a	75	55	n/a	45	70	50
n/a	45	60	n/a	n/a	70	n/a	50	n/a	45
75	90	n/a	80	55	55	60	60	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
85	n/a	75	n/a	25	100	n/a	75	50	75
n/a	70	60	n/a	n/a	50	n/a	n/a	70	50
n/a	n/a	75	n/a	n/a	n/a	n/a	n/a	n/a	65
70	n/a	75	85	n/a	n/a	85	n/a	70	n/a

n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
95	75	n/a	90	70	90	n/a	n/a	45	85
95	n/a	n/a	70	n/a	n/a	n/a	85	n/a	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	95	n/a	n/a	90	95	85	90	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	15	n/a	n/a	75	60	n/a	40	n/a
100	n/a	n/a	90	n/a	90	n/a	90	70	n/a
n/a	n/a	60	n/a	n/a	n/a	90	75	55	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	75	65	n/a	n/a	80	55	60	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	n/a	65	n/a	n/a	n/a	n/a	60	n/a	n/a
n/a	60	n/a	30	85	45	n/a	65	n/a	n/a
65	75	n/a	n/a	60	n/a	n/a	n/a	n/a	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	85	65	n/a	n/a	n/a	90	60	n/a	n/a
n/a	n/a	45	n/a	n/a	80	n/a	n/a	n/a	55
100	85	n/a	100	n/a	n/a	n/a	n/a	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	n/a	n/a	95	70	n/a	n/a	n/a	n/a	75
n/a	90	75	95	50	90	n/a	55	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	20	70	n/a	75	n/a	n/a	80	n/a	15
n/a	n/a	80	70	n/a	70	n/a	60	n/a	65
n/a	60	55	75	n/a	n/a	n/a	45	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	70	n/a	60	n/a	80	65	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	65	65	60	60	55	65	n/a	60	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	75	n/a	n/a	n/a	90	n/a	80	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	90	70	n/a	n/a	n/a	90	n/a	n/a	50
65	65	65	n/a	n/a	n/a	80	n/a	n/a	60
n/a	70	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	80	85	85	n/a	n/a	n/a	n/a	80
75	n/a	50	n/a	85	60	50	55	n/a	n/a

n/a	n/a	65	n/a	75	35	90	n/a	n/a	n/a
45	n/a	45	55	55	40	65	40	35	n/a
60	75	35	70	70	70	75	n/a	n/a	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60	n/a	n/a	n/a	n/a	70	60	35	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	70	85	n/a	65	55	n/a	50
90	100	85	75	95	n/a	95	95	75	80
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
85	n/a	80	n/a	80	85	n/a	n/a	85	85
70	85	n/a	90	60	n/a	n/a	70	n/a	60
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	n/a	n/a	90	n/a	65	90	60	n/a	40
n/a	n/a	n/a	95	90	n/a	100	n/a	70	65
n/a	65	65	95	75	70	80	75	n/a	n/a
85	n/a	80	80	n/a	n/a	90	n/a	80	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	80	n/a	70	65	n/a	n/a	75	60	n/a
n/a	60	45	n/a	40	n/a	80	n/a	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	60	70	80	45	n/a	60	n/a	n/a	55
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	55	n/a	n/a	n/a	80	60	30	45
n/a	70	80	n/a	n/a	n/a	n/a	55	n/a	55
75	60	n/a	50	85	n/a	n/a	85	85	70
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	60	65	n/a	65	n/a	70	65	n/a
80	60	n/a	n/a	50	60	80	n/a	60	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	10	n/a	n/a	n/a	10	10	5
n/a	85	n/a	95	95	90	n/a	80	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
35	15	30	n/a	n/a	n/a	n/a	45	35	n/a
75	70	45	n/a	n/a	n/a	n/a	n/a	80	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

n/a	n/a	65	70	55	n/a	n/a	n/a	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
85	75	80	65	n/a	n/a	80	n/a	n/a	75
n/a	70	70	n/a	n/a	n/a	40	40	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
50	n/a	n/a	55	n/a	55	70	60	n/a	45
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	60	50	70	40	75	n/a	n/a	50	50
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	n/a	n/a	70	80	n/a	n/a	70	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
70	n/a	n/a	75	n/a	n/a	80	n/a	75	65
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	85	n/a	n/a	n/a	n/a	95	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	25	n/a	55	45	n/a	n/a	n/a	n/a	40
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	75	70	70	70	n/a	70	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
75	n/a	40	n/a	40	n/a	90	70	50	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
80	80	80	n/a	80	85	85	80	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	90	n/a	80	n/a	n/a	n/a	75
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
69.87805	67.34177	63.75	74.75	64.71591	71.3253	76.83099	65.75949	62.53623	58.31522

Fb7	Fb8	Fb9	Fb10	Fb11	Fb12	Fc1_Mc5	Fc1_Mc6	Fc1_Mc10
n/a	65	70	n/a	n/a	80			
n/a	60	n/a	n/a	85	80			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
40	n/a	n/a	35	n/a	n/a			
15	50	n/a	15	35	40			
40	n/a	80	n/a	75	n/a			
50	65	n/a	n/a	n/a	n/a			
70	70	n/a	n/a	n/a	90			
n/a	n/a	n/a	n/a	n/a	n/a			
25	n/a	35	25	n/a	50			
65	n/a	70	n/a	n/a	85			
45	45	55	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a	65		
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	65	n/a	65	80	n/a			
n/a	n/a	n/a	n/a	n/a	n/a		80	
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	40	n/a	45	45	50			
50	55	65	n/a	65	65			
50	70	n/a	n/a	65	75			
n/a	n/a	n/a	45	40	70			
50	n/a	35	n/a	n/a	n/a			
30	40	60	75	60	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	65	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	35			
n/a	n/a	n/a	n/a	n/a	n/a			
65	75	n/a	90	75	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
70	80	n/a	n/a	n/a	55			
n/a	n/a	70	n/a	75	n/a			
n/a	n/a	n/a	n/a	n/a	n/a	60		
n/a	50	n/a	n/a	50	n/a			
n/a	30	n/a	35	40	35			
85	n/a	80	n/a	n/a	85			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
40	65	n/a	55	n/a	85			
n/a	n/a	60	n/a	40	n/a			
n/a	n/a	50	60	50	60			

n/a	n/a	n/a	n/a	n/a	n/a				
60	n/a	n/a	65	70	n/a				
n/a	n/a	n/a	n/a	n/a		60			
n/a	n/a	35	40	75		70			
60	n/a	70	n/a	65		75			
80	80	n/a	80	80		85			
n/a	n/a	n/a	n/a	n/a	n/a				65
n/a	70	55	70	n/a		70			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a		80		
n/a	10	15	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a		80		
75	40	n/a	n/a	55		80			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
80	n/a	75	80	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	80	85	85	n/a				
n/a	n/a	n/a	90	90	n/a				
n/a	60	75	65	n/a	n/a				
50	n/a	n/a	85	n/a		80			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
90	90	n/a	n/a	n/a		95			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				85
n/a	85	75	75	65	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				90
50	70	60	n/a	65	n/a				
60	60	75	n/a	n/a	n/a				
60	n/a	70	65	80	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	80	n/a		85			
n/a	n/a	n/a	n/a	n/a	n/a				100
n/a	70	n/a	55	70		85			
n/a	n/a	100	100	n/a		100			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a		90		
n/a	n/a	n/a	n/a	n/a	n/a		85		
n/a	65	70	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				

n/a	n/a	n/a	n/a	n/a	n/a		
n/a	20	n/a	60	n/a	75		
n/a	n/a	35	n/a	60	65		
90	n/a	n/a	95	95	90		
n/a	95	n/a	95	n/a	95		
70	n/a	n/a	n/a	60	n/a		
90	n/a	n/a	40	n/a	n/a		
50	60	60	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	65	n/a	70	n/a	n/a		
30	30	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	75	65	n/a	55	90		
40	n/a	60	n/a	70	75		
n/a	n/a	n/a	n/a	n/a	n/a		
70	n/a	n/a	65	n/a	75		
n/a	n/a	45	n/a	n/a	70		
n/a	60	75	70	75	90		
n/a	n/a	n/a	n/a	n/a	n/a	90	
n/a	n/a	80	n/a	80	70		
n/a	n/a	80	n/a	n/a	80		
50	n/a	n/a	85	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		90
n/a	n/a	55	50	70	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	90	n/a	90	100		
n/a	n/a	n/a	n/a	n/a	n/a	85	
n/a	n/a	n/a	n/a	n/a	n/a		70
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	80	60	80	95		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	100	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	60	65	75	n/a	70		
40	n/a	n/a	n/a	n/a	n/a		
75	65	n/a	n/a	75	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	70	70	n/a	70	70		
n/a	n/a	n/a	75	n/a	n/a		
n/a	n/a	n/a	75	65	65		
50	n/a	n/a	85	80	n/a		
40	40	n/a	65	65	65		

65	n/a	70	45	50	80		
n/a	n/a	n/a	80	n/a	n/a		
75	50	n/a	60	75	n/a		
n/a	40	n/a	55	n/a	80		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
85	n/a	70	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a	85	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	75	n/a	75	80	n/a		
85	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
40	50	n/a	n/a	n/a	n/a		
n/a	n/a	85	n/a	n/a	95		
n/a	65	75	70	90	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a	75	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
50	n/a	n/a	n/a	n/a	n/a		
60	80	80	n/a	n/a	80		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
95	n/a	n/a	35	n/a	25		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		85
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
40	n/a	n/a	n/a	n/a	70		
n/a	60	75	n/a	n/a	65		
n/a	n/a	n/a	n/a	40	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a	80	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a	85	
5	40	n/a	10	n/a	90		
40	n/a	65	n/a	n/a	80		
n/a	n/a	85	65	n/a	70		
75	n/a	n/a	80	n/a	n/a		

n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	85	n/a	n/a	90	n/a		
n/a	55	n/a	75	85	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		40
n/a	n/a	n/a	90	n/a		90	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	60	80	80	n/a		50	
90	90	n/a	100	95	n/a		
40	n/a	85	45	n/a		85	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	40	45	60	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		90
n/a	65	n/a	70	n/a		85	
30	n/a	95	n/a	90	n/a		
55	n/a	n/a	n/a	70		80	
n/a	n/a	n/a	n/a	n/a	n/a		
75	n/a	n/a	n/a	n/a		80	
15	n/a	70	45	n/a		85	
n/a	n/a	n/a	n/a	75	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		75
n/a	60	n/a	65	80	n/a		
n/a	70	80	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	65	n/a	n/a	n/a		95	
n/a	55	75	70	n/a	n/a		
n/a	50	65	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	70	70	n/a		70	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	45	55	n/a	n/a	n/a		
n/a	n/a	n/a	n/a	n/a	n/a		
60	85	75	70	n/a		95	
n/a	n/a	n/a	n/a	n/a	n/a		
n/a	n/a	55	n/a	n/a		90	
n/a	n/a	n/a	n/a	n/a		70	
n/a	n/a	70	n/a	80		85	
n/a	n/a	n/a	n/a	n/a	n/a		85
80	n/a	90	70	n/a	n/a		
n/a	65	n/a	55	n/a		55	

n/a	55	30	80	n/a		80			
n/a	n/a	n/a	50	n/a	n/a				
50	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a			55	
n/a	n/a	n/a	n/a	n/a	n/a			85	
n/a	n/a	n/a	n/a	n/a	n/a		80		
n/a	n/a	n/a	n/a	n/a	n/a			85	
n/a	n/a	n/a	n/a	n/a	n/a				
25	n/a	n/a	50	40		55			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	65	85	60	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
75	80	n/a	80	n/a		85			
n/a	75	n/a	n/a	65	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				90
20	n/a	n/a	55	70	n/a				
n/a	n/a	90	70	95	n/a				
n/a	70	75	n/a	n/a	n/a				
50	n/a	n/a	90	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
50	65	65	n/a	75	n/a				
n/a	n/a	50	n/a	n/a		85			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	20	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	45	40	n/a		75			
55	n/a	65	n/a	n/a		85			
65	n/a	n/a	n/a	95	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
65	70	70	75	n/a	n/a				
n/a	n/a	n/a	n/a	55		65			
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	5	10	10	15	n/a				
n/a	n/a	85	n/a	85	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
n/a	n/a	n/a	n/a	n/a	n/a				
20	n/a	n/a	n/a	n/a		55			
60	n/a	n/a	n/a	n/a		95			
n/a	n/a	n/a	n/a	n/a	n/a				

50	60	70	85	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	55	n/a	n/a	n/a	n/a			
n/a	n/a	55	n/a	n/a	45			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a		80	
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	65	n/a	55	50	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
70	n/a	80	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a	55		
65	n/a	n/a	85	75	85			
n/a	n/a	n/a	n/a	n/a	n/a	70		
80	75	n/a	55	70	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	100	100	n/a	100			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	60	n/a	60	n/a			
n/a	n/a	n/a	n/a	n/a	n/a			75
n/a	70	75	65	75	n/a			
n/a	n/a	n/a	n/a	n/a	n/a	75		
40	n/a	n/a	80	n/a	85			
n/a	n/a	n/a	n/a	n/a	n/a			
80	n/a	n/a	n/a	n/a	85			
n/a	n/a	n/a	n/a	n/a	n/a			
n/a	n/a	70	70	80	n/a			
n/a	n/a	n/a	n/a	n/a	n/a		60	
56.4	60	67.3125	65.84337	69.07143	75.5487804878	77.5	74.58333	84.28571

	Female Alone
Average	68.72427983539
SD	18.63919431163

Fc1_Mb1	Fc1_Mb3	Fc1_Mb7	Fb1_Mc2	Fb1_Mc4	Fb1_Mc11	Fb1_Mb8	Fb1_Mb9	Fb1_Mb12	Fc2_Mc1
			75						
		70							
	80								
	75								
				70					60
								85	
			75						
		85							80
			80						
				65					
					55				
					75				
							60		
			65						

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70
65

85									
		75							80
100									
		75							
	85								
	95								90
	85								
						85			
	90								
81.25	85.66667	74.41176	76.78571	70.625	67	72.14286	71.92308	69.64286	80

Fc2_Mc4	Fc2_Mc11	Fc2_Mb7	Fc2_Mb9	Fc2_Mb12	Fb2_Mc2	Fb2_Mc3	Fb2_Mc10	Fb2_Mb5	Fb2_Mb6
					80				
70									
					55				
				75					
							45		
					95				
				70					
								70	
			40						
							10		
55									
					45				
							65		

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70

				50					
			85						
			80						
			85						
						90			
		70							
		70							
					65				
				75					
								70	
75	81.5	76.66667	66.53846	71.11111	68	66.81818	62.33333	69	75.38462

Fb2_Mb8	Fc3_Mc2	Fc3_Mc8	Fc3_Mc11	Fc3_Mb4	Fc3_Mb6	Fc3_Mb10	Fb3_Mc1	Fb3_Mc9
60				70				
					85			
					60			
				85				
			70					
80			80					
				60				
								90
								80
								85
	90							
			65					
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					55			
		75						
				85				
100		100						
							65	
				65				
65		85						
70								
				85				
75	82	77.08333	76.33333	80.38462	73	82.5	76	77.72727

Fb3_Mc12	Fb3_Mb3	Fb3_Mb5	Fb3_Mb7	Fc4_Mc5	Fc4_Mc7	Fc4_Mc8	Fc4_Mb9	Fc4_Mb10	Fc4_Mb11
					75				
								80	
	75							85	
						65			
					60				
					85				
							80		
						65			
								55	
75									

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			65	65					
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						85			
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						65			
			80				75		
			80						
95									95
75									
				70					
85								80	
							85		
		80							
				80					
76.25	71.36364	65.55556	80.76923	73.23529	78.75	73.21429	81.36364	81.11111	82.5

Fb4_Mc2	Fb4_Mc6	Fb4_Mc12	Fb4_Mb1	Fb4_Mb3	Fb4_Mb4	Fc5_Mc8	Fc5_Mc10	Fc5_Mc12	Fc5_Mb1
			50						
75									
			80						
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			75					65	
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	70								70
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65							70		
	95								
					60				75
		60							
					70				
			60						
						75			
75	60.90909	70.38462	58.92857	63.33333	65.90909	58	63	70.83333	72.5

Fc5_Mb3	Fc5_Mb6	Fb5_Mc4	Fb5_Mc5	Fb5_Mc9	Fb5_Mb2	Fb5_Mb7	Fb5_Mb11	Fc6_Mc1	Fc6_Mc5
50									
					75				
						70			
		30							
		75						75	
						60			40
					80				70
45									
						60			
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70									
		50							45
	65								
90									
				40					
							60		
							65		
			70						
		60							
70.83333	70.90909	59.28571	55.76923	69.28571	64.61538	51.81818	57.85714	63.57143	61.42857

Fc6_Mc6	Fc6_Mb2	Fc6_Mb8	Fc6_Mb9	Fb6_Mc3	Fb6_Mc11	Fb6_Mc12	Fb6_Mb4	Fb6_Mb7	Fb6_Mb10
					45				
							70		
		70							
		35							
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		75							
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					60				
				55					
				65					
		65							
									60
		45							
	60								
						55			
70									
	60								
									35
62.14286	61.25	57.14286	56.25	58.75	65.3125	58.5	62.5	53.07692	62.91667

Fc7_Mc7	Fc7_Mc9	Fc7_Mc12	Fc7_Mb4	Fc7_Mb10	Fc7_Mb11	Fb7_Mc3	Fb7_Mc5	Fb7_Mc6	Fb7_Mb1
					75				
		75							
				45					
75									
								50	
						60			
								40	
				90					
								40	
	75								
		70							
			80						
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							60		
			95						
			65						
								75	
									70
						85			
		60							
		60							
					60				
			75						
							25		
65.55556	72.5	65.88235	69.375	77.5	65	66.5625	59.61538	57.5	69.54545

Fb7_Mb2	Fb7_Mb8	Fc8_Mc3	Fc8_Mc4	Fc8_Mc7	Fc8_Mb1	Fc8_Mb2	Fc8_Mb11	Fb8_Mc8	Fb8_Mc5
20		75							
		80							
			85						
			90						
						90			
									70
								45	
	25						30		
					75				
							65		
						75			

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					70		
						80	
			85				
					85		
				60			
		90					
		85					
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		70					
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55						85	
	35	85					
					100		
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						85	
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		70							
40									50
								75	
			95						
									70
									60
60									
			80						

47.5	46.66667	75.41667	76.53846	71.66667	69.41176	78.33333	70	61.25	63.46154

Fb8_Mc6	Fb8_Mb9	Fb8_Mb10	Fb8_Mb12	Fc9_Mc3	Fc9_Mc9	Fc9_Mc11	Fc9_Mb2	Fc9_Mb5	Fc9_Mb7
	35							65	
						80			
			65						
					70				
45									60
70									
		40							
									80
									75
							80		
10									
									70
						60			

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		55						70	
	90								
					50				
			40					75	
			65						
									85
		40							
								65	
55									90
						25			
53.18182	60	60.33333	60	72.22222	60	63.07692	74.5	68.2	72.5

Fb9_Mc1	Fb9_Mc4	Fb9_Mc8	Fb9_Mb6	Fb9_Mb10	Fb9_Mb12	Fc10_Mc2	Fc10_Mc3	Fc10_Mc1	Fc10_Mb4
								70	
				80				70	
					65				
						50			
70									
		50					40		
							75		
							70		
					60				60
				40					
90						10			
			60						65

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60									
						60			
	80								
	60							55	
					65				65
	50								
73	74.44444	60.55556	71	67.72727	68.63636	67.8125	60.41667	66.875	67.08333

Fc10_Mb5	Fc10_Mb8	Fb10_Mc7	Fb10_Mc9	Fb10_Mc1	Fb10_Mb1	Fb10_Mb6	Fb10_Mb1	Fc11_Mc1	Fc11_Mc2
								60	
							65	80	
				70					
					70				
						75			
									30
				85					
								60	
							20		20
						60			
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		60							
55									
	100								
						55		60	
	70								
						65			
			75						
			45						
						65		80	
			50						
				40					
56.875	64.44444	64.23077	58.75	71	57.5	74.23077	60	66.25	52.5

Fc11_Mc6	Fc11_Mb5	Fc11_Mb8	Fc11_Mb1	Fb11_Mc7	Fb11_Mc1	Fb11_Mc1	Fb11_Mb3	Fb11_Mb4	Fb11_Mb9
				65					
				55					
65									
									60
				80					
							90		
				90					
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									80
				75					
								90	
		65							
			75						
							70		
	60								
				60					
68.88889	68.75	66.53846	57.5	71.17647	68.88889	69.375	65.5	73.92857	71

Fc12_Mc4	Fc12_Mc9	Fc12_Mc1	Fc12_Mb3	Fc12_Mb6	Fc12_Mb1	Fb12_Mc1	Fb12_Mc7	Fb12_Mc8	Fb12_Mb2
						85			
		85							
					80				
			65						
							75		
	60								
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						75			
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					65				
						70			
							55		
	95								
60									
		70							
				90					
	80								
	60								
76.53846	78.61111	76.15385	77.08333	78.75	82.5	71	69.5	76.81818	72.5

Fb12_Mb5	Fb12_Mb1	Participant Sex
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	70	Male
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66.66667	64	
	Female w other	
Average	68.89775	
SD	17.32084	

ESM 1: Mate Choice Copying Papers omitted from meta-analysis due to lack of quantifiable data or were reviews, commentaries or replies.

First Author	Year	Title	Reason
Agrawal	2001	**The evolutionary consequences of mate copying on male traits**	**i**
Brooks	1998	**The importance of mate copying and cultural inheritance of mating preferences.**	**ii**
Brooks	1998	**Mate copying and cultural inheritance - Reply from R. Brooks**	**ii**
Castellano	2012	**Computational mate choice: Theory and empirical evidence.**	**i**
Dubois	2012	**Social information use may lead to maladaptive decisions: a game theoretic model.**	**iii**
Dugatkin	1996	**Copying and mate choice Social learning in animals: The roots of culture**	**ii**
Kirkpatrick	1994	**Sexual selection and the evolutionary effects of copying mate choice.**	**i**
Kraak	1996	**Copying mate choice': Which phenomena deserve this term?**	**i**
Meggers	1998	**Mate copying and cultural inheritance.**	**i**
Nordell	1998	**Mate choice copying as public information.**	**ii**
Pruettjones	1992	**Independent Versus Nonindependent Mate Choice - Do Females Copy Each Other.**	**i**
Santos	2014	**Negative public information in mate choice copying helps the spread of a novel trait.**	**ii**
Servedio	1996	**The evolution of mate choice copying by indirect selection.**	**i**
Sirot	2001	**Mate-choice copying by females: the advantages of a prudent strategy.**	**ii**
Stohr	1998	**Evolution of mate-choice copying: A dynamic model.**	**iii**

Tramm	2008	**Evolution of mate-choice imprinting: Competing strategies**	**i**
Uehara	2005	**Mate-choice copying as Bayesian decision making.**	**iii**
Vakirtzis	2011	**Mate choice copying and nonindependent mate choice: a critical review.**	**i**
Vakirtzis	2009	**Mate choice copying and mate quality bias: Different processes, different species.**	**ii**
Vakirtzis	2010	**Nonindependent mate choice in monogamy.**	**i**
Wagner	2003	**Conspecific copying: A general mechanism of social aggregation.**	**i**
Westneat	2000	**Alternative mechanisms of nonindependent mate choice.**	**ii**
Witte	2010	**Mate choice copying and mate quality bias: Are they different processes?**	**ii**

(i) **Review, no data**
(ii) **Theoretical framework**
(iii) **Model**