

Manual for 'Affective auditory stimuli: characterization of the International Affective Digitized Sounds (IADS) by discrete emotions.'

Ryan A. Stevenson^{1,2} & Thomas W. James^{1,2}

1. Department of Psychological and Brain Sciences, Indiana University

2. Program in Neuroscience, Indiana University

This manual accompanies Stevenson & James (2007), and references data archived at www.psychonomics.com. Data included are ratings from the International Affective Digitized Sounds (IADS) on five categories of discrete emotion, happiness, anger, sadness, fear, and disgust. Ratings were collected on 40 male and 40 female participants.

Figures

Figure 1: Contrasting happiness ratings with other discrete emotional categories recorded by Stevenson and James (In Press) and Self-Assessment Manikin (SAM) ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate happiness ratings with fear (a), anger (b), disgust (c), sadness (d), valence (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figure 2: Contrasting fear ratings with other discrete emotional categories recorded by Stevenson and James (In Press) and SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate fear ratings with happiness (a), anger (b), disgust (c), sadness (d), valence (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figures 3: Contrasting anger ratings with other discrete emotional categories recorded by Stevenson and James (In Press) and SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate anger ratings with happiness (a), fear (b), disgust (c), sadness (d), valence (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both

positive and negative sounds, with the linear equation listed in the legend.

Figures 4: Contrasting disgust ratings with other discrete emotional categories recorded by Stevenson and James (In Press) and SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate disgust ratings with happiness (a), fear (b), anger (c), sadness (d), valence (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figures 5: Contrasting sadness ratings with other discrete emotional categories recorded by Stevenson and James (In Press) and SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate sadness ratings with happiness (a), fear (b), anger (c), disgust (d), valence (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figures 6: Contrasting valence ratings with discrete emotional categories recorded by Stevenson and James (In Press) and with other SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate valence ratings with happiness (a), fear (b), anger (c), disgust (d), sadness (e), arousal (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figures 7: Contrasting arousal ratings with discrete emotional categories recorded by Stevenson and James (In Press) and with other SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate arousal ratings with happiness (a), fear (b), anger (c), disgust (d),

sadness (e), valence (f), and dominance (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Figures 8: Contrasting dominance ratings with discrete emotional categories recorded by Stevenson and James (In Press) and with other SAM ratings originally recorded by Bradley & Lang (1999). Graphs in this figure relate dominance ratings with happiness (a), fear (b), anger (c), disgust (d), sadness (e), valence (f), and arousal (g). Blue diamonds represent sounds with a positive valence (5 or above), and red squares represent those with negative valence (5 and below). Linear trend lines have been calculated and are overlaid for both positive and negative sounds, with the linear equation listed in the legend.

Tables

Table 1: Table one consists of ratings averaged across all subjects. Included is the sound description, the IADS index number, the discrete category it falls into, the means and standard deviations for each emotional category, and the number of subjects who rated that sound. Asterisks mark the means of each categorical rating in which there was a significant difference ($p \leq 0.05$) between male-only and female-only ratings, as well as marking discrete categories in which there was a sexual difference. In the case that a sound did not fall into a discrete category according to the average across all subjects, but did for an individual sex, the column is marked with a stand-alone asterisk.

Table 2: Table two consists of ratings averaged across all female subjects. Included is the sound description, the IADS index number, the discrete category it falls into, the means and standard deviations for each emotional category, and the number of female subjects who rated that sound. Asterisks mark the means of each categorical rating in which there was a significant difference ($p \leq 0.05$) between male-only and female-only ratings, as well as marking discrete categories in which there was a sexual difference. In the case that a sound did not fall into a discrete category according to the average across female subjects, but did for either male subjects or across all subjects, the column is marked with a stand-alone asterisk.

Table 3: Table three consists of ratings averaged across all male subjects. Included is the sound description, the IADS index number, the discrete category it falls into, the means and standard deviations for each emotional category, and the number of male subjects who rated that sound. Asterisks mark the means of each categorical rating in which there was a significant difference ($p \leq 0.05$) between male-only and female-only ratings, as well as marking discrete categories

in which there was a sexual difference. In the case that a sound did not fall into a discrete category according to the average across male subjects, but did for either female subjects or across all subjects, the column is marked with a stand-alone asterisk.

Table 4: Table four consists of the statistical results for regressions using the three dimensional ratings (valence, arousal, and dominance) previously collected by Bradley and Lang (1999) to predict the five emotional category ratings (happiness, fear, anger, disgust, and sadness). Regressions were completed after parsing sounds into positive (valence > 5) and negative (valence < 5) sounds.

Table 5: Table five consists of the statistical results for regressions using the five emotional category ratings (happiness, fear, anger, disgust, and sadness) to predict the three dimensional ratings (valence, arousal, and dominance) previously collected by Bradley and Lang (1999). Regressions were completed after parsing sounds into positive (valence > 5) and negative (valence < 5) sounds.

Discrete Emotional Categories

Two levels of discrete emotional categories, or affective categories into which that sounds were segregated, were defined by sounds in which the mean of one or more ratings were 1 or 0.5 standard deviations above all others. For example, to be categorized as a fearful sound, the mean for fear must be one standard deviation higher than the means for all four other discrete emotional categories. To be classified as fear/disgust, mean ratings for fear and disgust must be one standard deviation above the other three means.

This way of categorizing is a guideline only. There are many other ways in which an experimenter can categorize sounds using these ratings other than that which we used. See Mikels et al. (2005) for further suggestions. Also, the cutoff of 1 or 0.5 standard deviations that we used is variable. To find sounds that are more strictly within a category, or to allow a more loose definition if a certain number of stimuli are needed, the experimenter need only change the number of standard deviations used to define the cutoff level.

Sex Differences

Sex differences were calculated by running a t-test on the raw ratings from males versus those from females. Any rating for which the t-score was significant to the $p \leq 0.05$ level was marked as a sex difference. As with the categorical labels, this level of sex difference is flexible, and can be made more or less strict depending on what is needed for a specific experimental paradigm. Using the sex specific means, standard deviations, and number of ratings per sex, experimenters can calculate any level of sex difference needed.

Excel Files

Included in the referenced Excel file are three spreadsheets, one including data describing results from all subjects, the second describing results from only female subjects, and the third from only male subjects. In addition, three tab delimited .txt files are available, one including all subjects, the second including only female subjects, and the third including only male subjects.

All Subjects Tab: The first tab in the Excel spreadsheet, entitled 'all subjects', includes combined data from both male and female subjects. These data are listed by the sound's description and IADS number. For an in-depth reading into data describing each sound according to dimensional theories of emotion, please see Bradley & Lang, 1999.

Data from Stevenson & James (2007) is listed, including the discrete category, defined as a rating or set of ratings which is greater than all other ratings by a distance of at least 1 or 0.5 standard deviations, with category labels given for both criteria. These include sounds with a single emotional category, where the rating for one emotional category was at least one standard deviation above the means for all other individual ratings. These include, happiness, fear, anger, disgust, and sadness. Also included are blended emotions (Mikels et al., 2005; Stevenson et al. 2007), in which 2 or 3 ratings of discrete emotions were not greater than each other, but were greater than all others by at least one standard deviation. These include the dual-emotive categories of anger/fear, happy/fear, happy/disgust, happy/sad, sadness/fear, and the tri-emotive categories of sadness/fear/disgust and anger/sadness/fear. The final category described those sounds in which none of the negative categories were at least one standard deviation above each other, but all were greater than one standard deviation above the mean happiness rating. These sounds were labeled 'neg'. An asterisk in this column signifies that there is a sex difference in the category, where the category labels with female-only and male-only ratings differ. Data for individual categorical ratings is archived as well, with the mean and standard deviation associated with each sound by discrete category. Sex differences are also noted here with an asterisk, and based upon the previously described criteria.

Finally, the number of subjects that rated each sound is recorded. This number is the total number that rated based on emotional category.

Female Subjects Tab: These data are identical to those in the 'All Subjects' worksheet tab, except that they are based on only the ratings of females. The categories are also the same: means and standard deviations for each emotional category, as well as the number of subjects that rated the sound.

Male Subjects Tab: These data are identical to those in the 'All Subjects' worksheet tab, except that they are based on only the ratings of males. The categories are also the same: means and standard deviations for each emotional category, as well as the number of subjects that rated the sound.

Acknowledgements

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References

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- Mikels, J.A., Fredrickson, B. L., Larkin, G. R., Lindberg, C. M., Maglio, S. J., & Reuter-Lorenz, P. A. (2005). Emotional category data on images from the International Affective Picture System. *Behavior Research Methods*, **37**, 626-630.
- Stevenson, R. A., Mikels, J. A., & James, T. W. (2007). Characterization of the Affective Norms for English Words by discrete emotional category. *Behavior Research Methods*.

Figure 1a & b: Happiness related to Fear and Anger

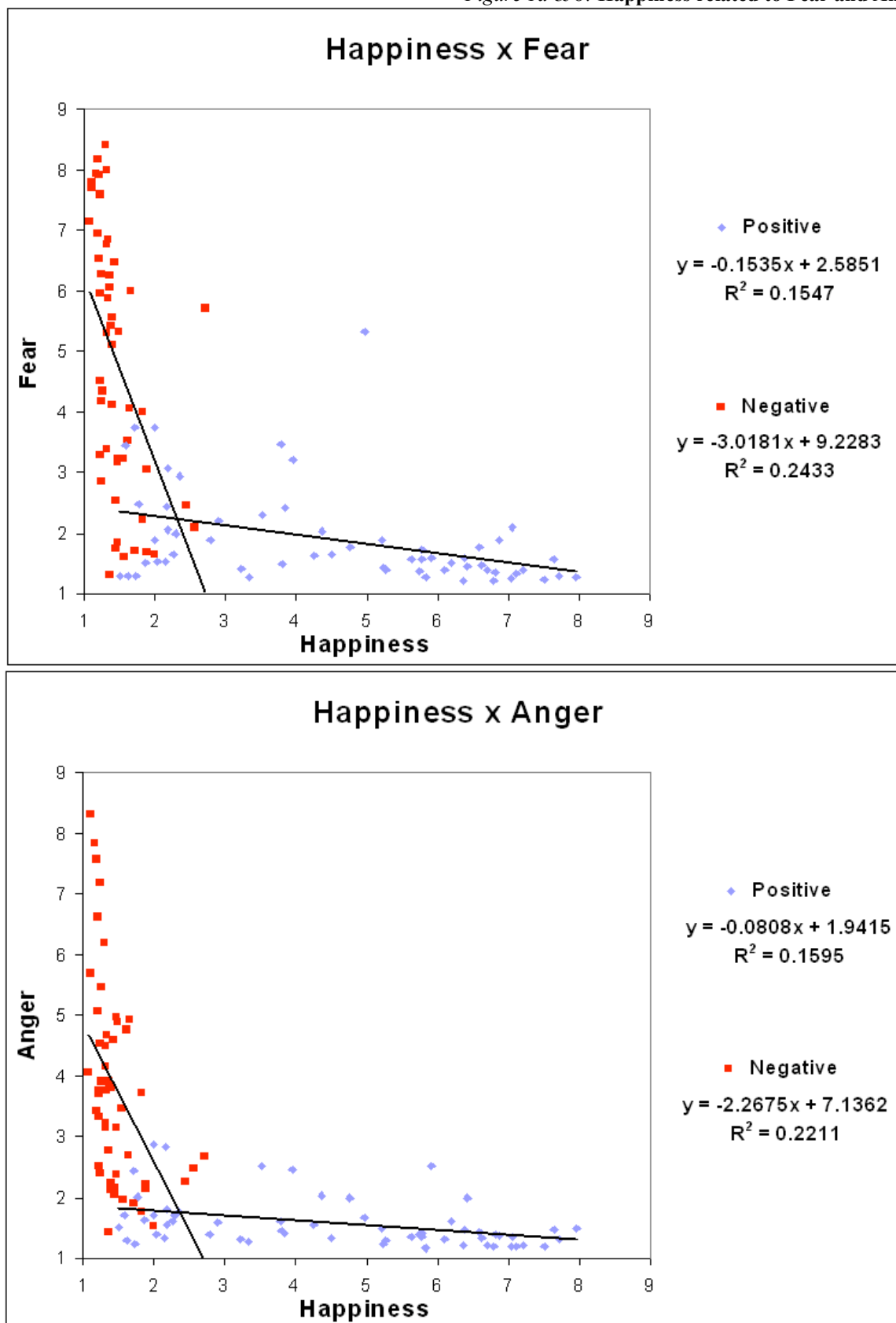


Figure 1c & d: Happiness related to Disgust and Sadness

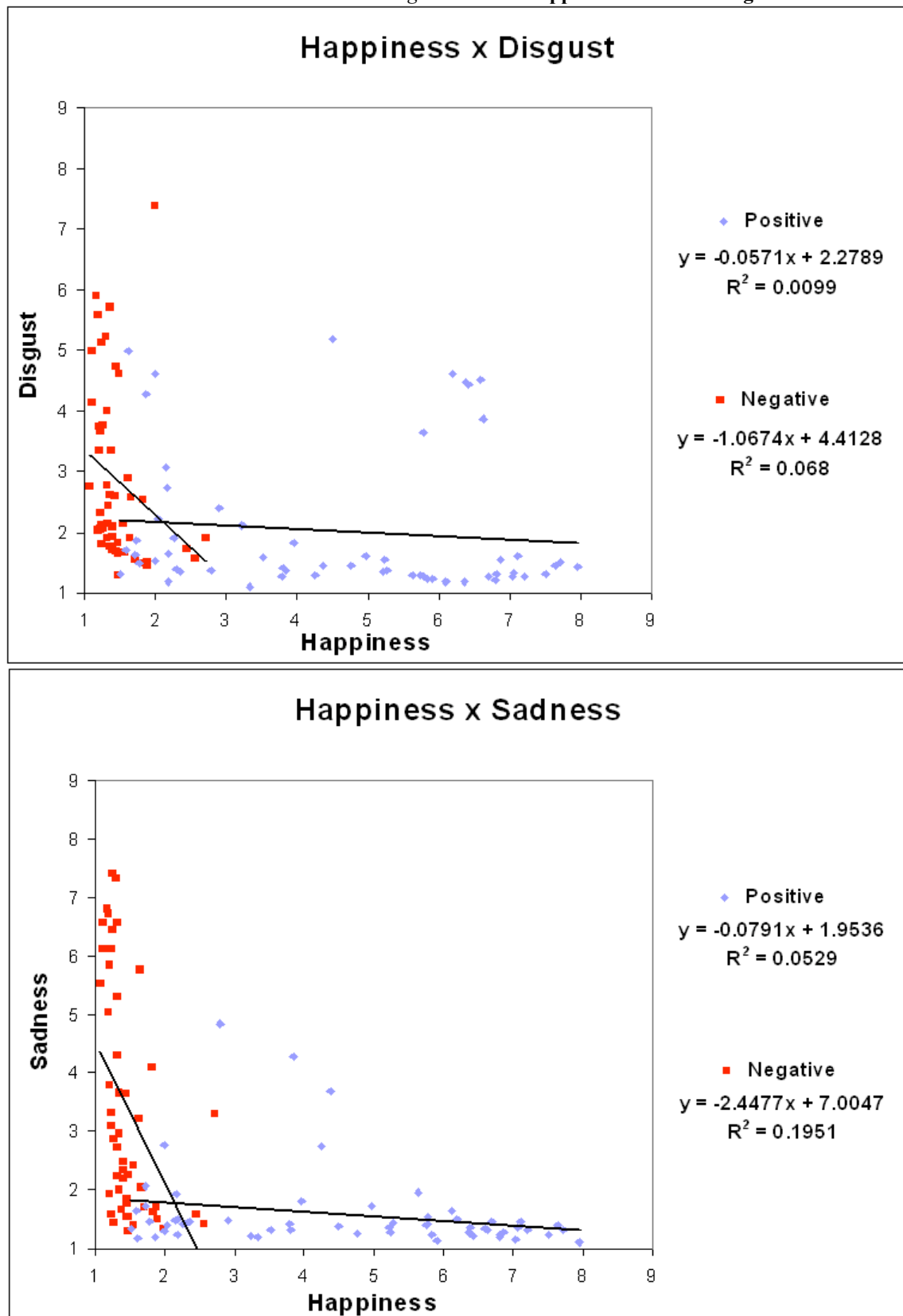


Figure 1e & f: Happiness related to Valence and Arousal

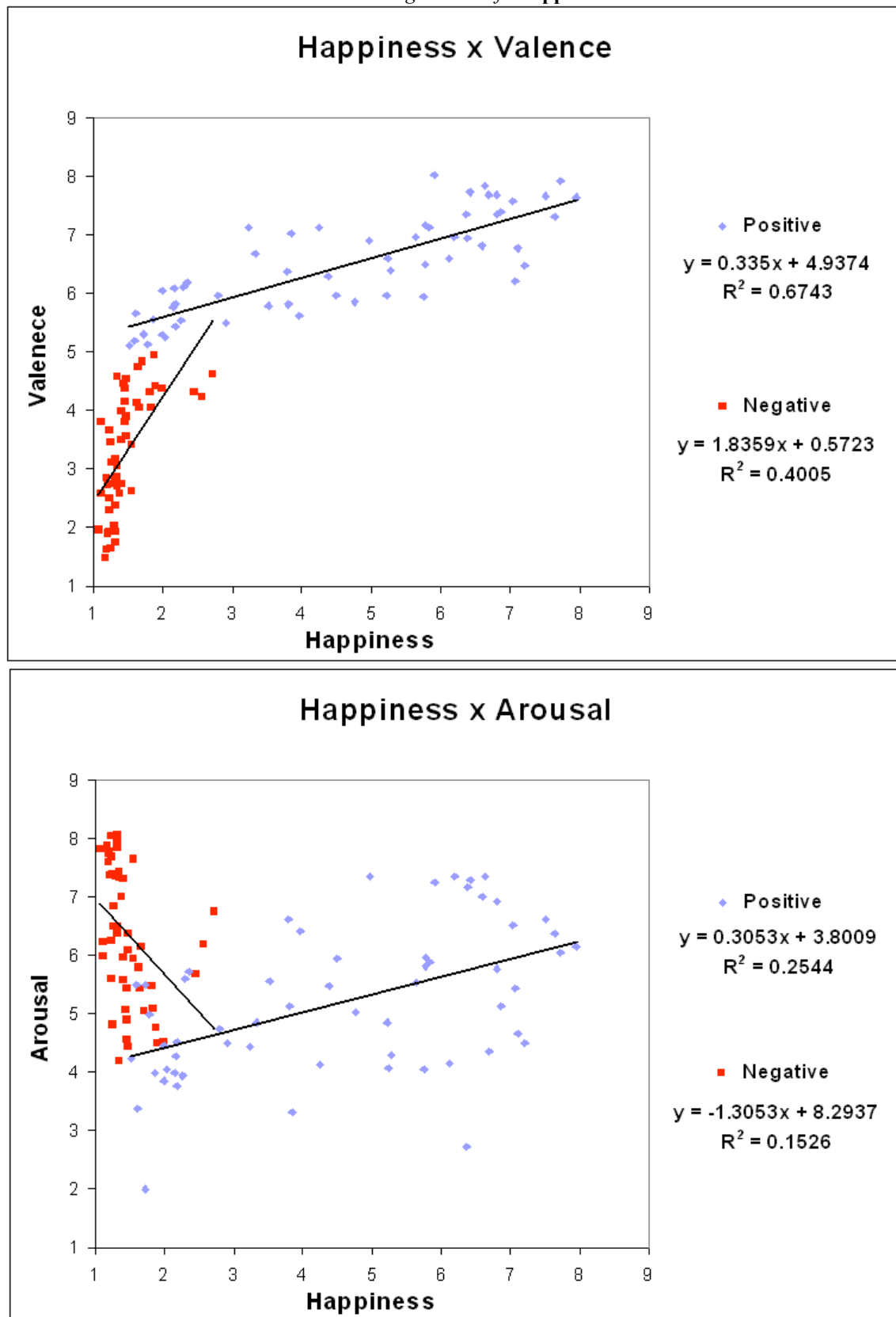


Figure 1g: Happiness related to Dominance

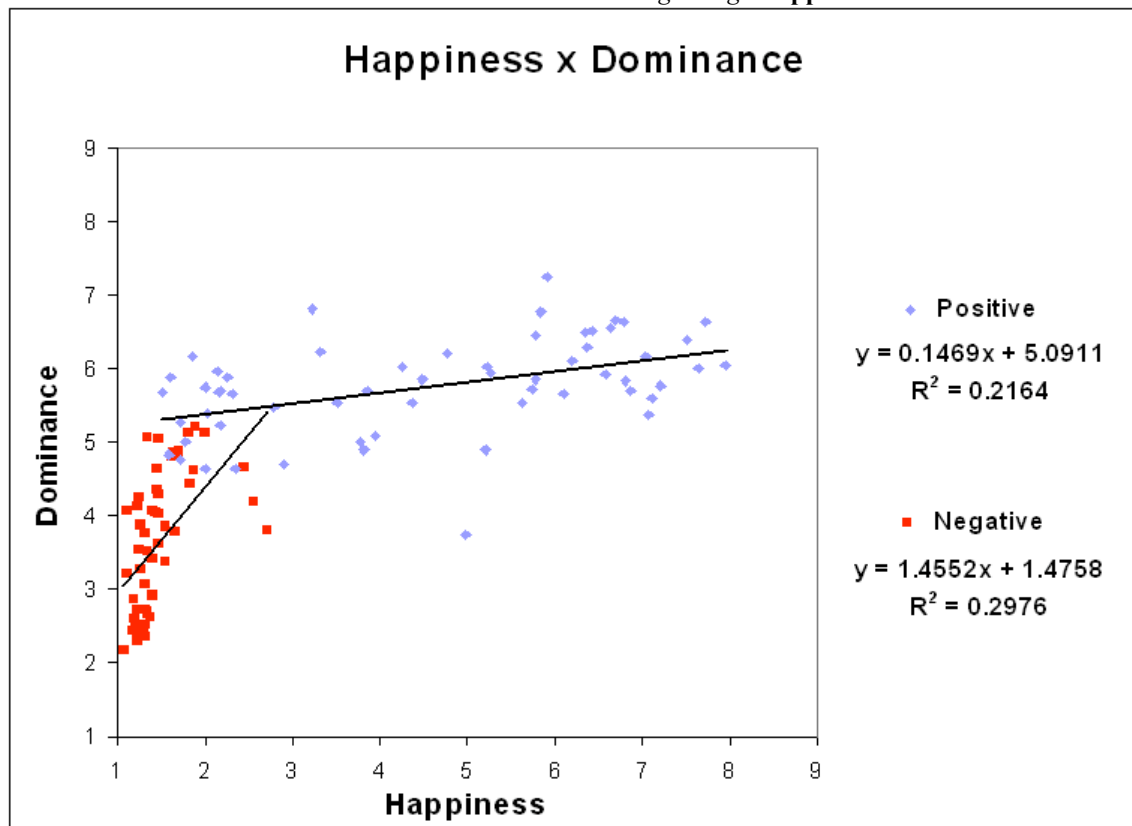


Figure 2a & b: Fear related to Happiness and Anger

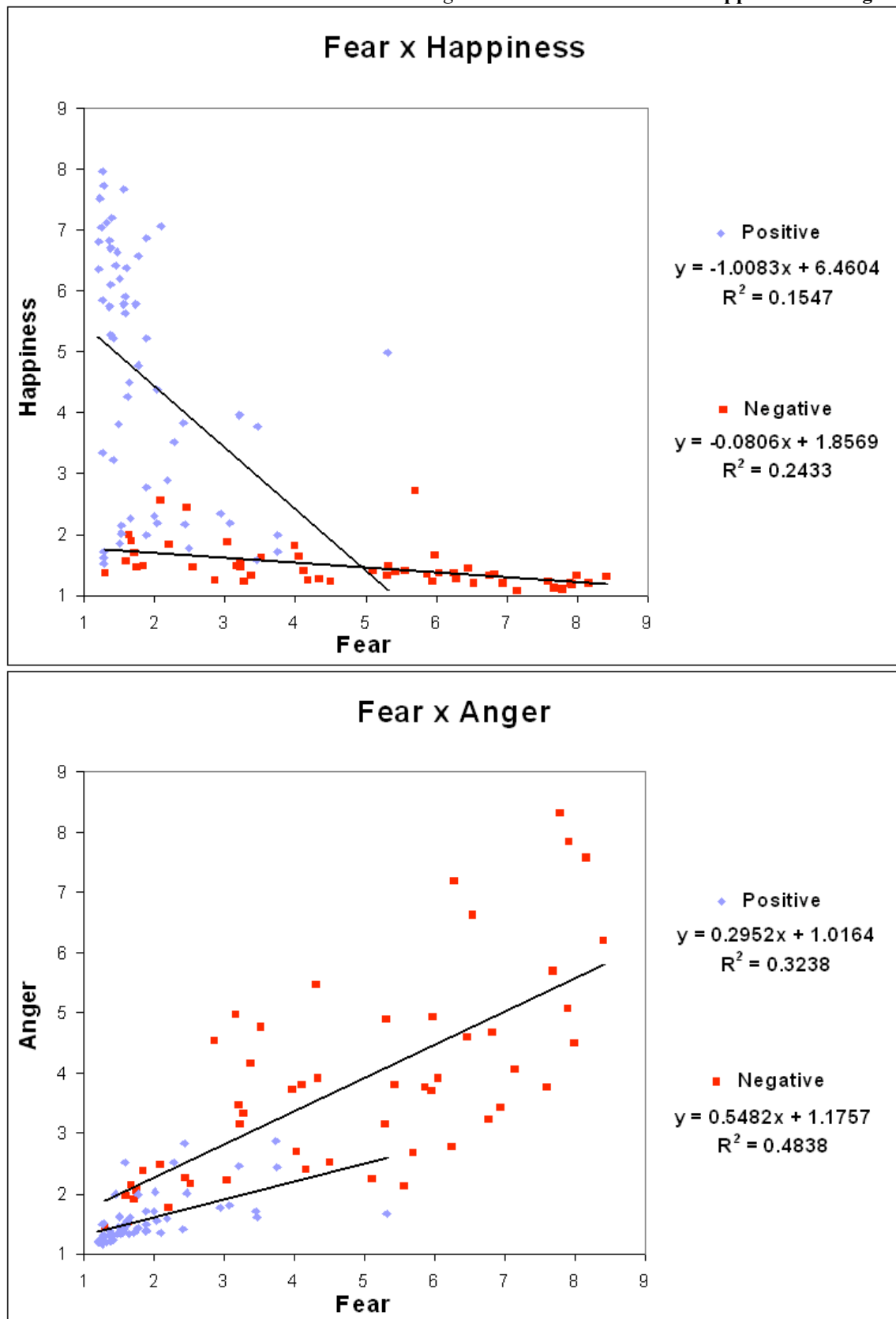


Figure 2c & d: Fear related to Disgust and Sadness

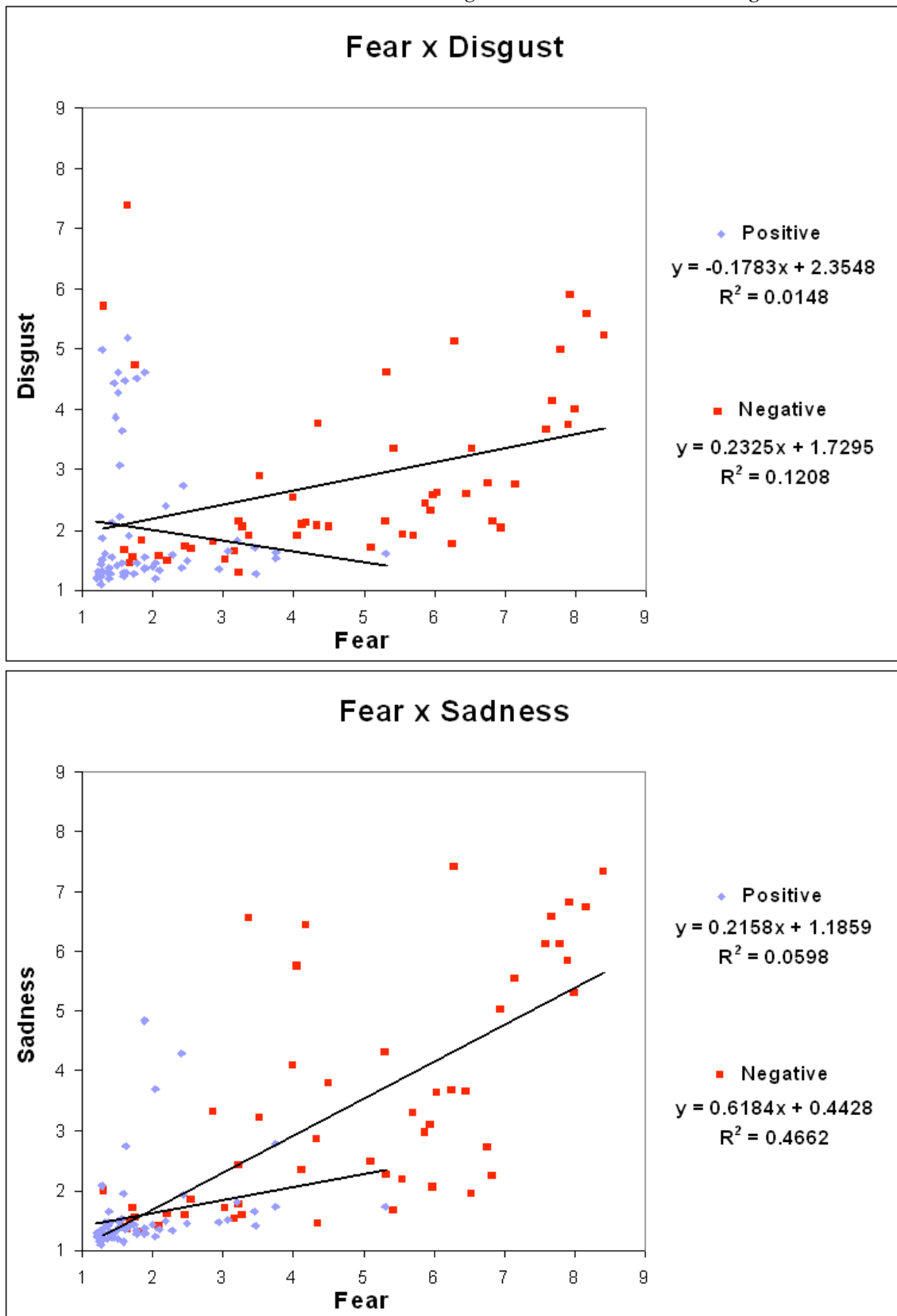


Figure 2e & f: Fear related to Valence and Arousal

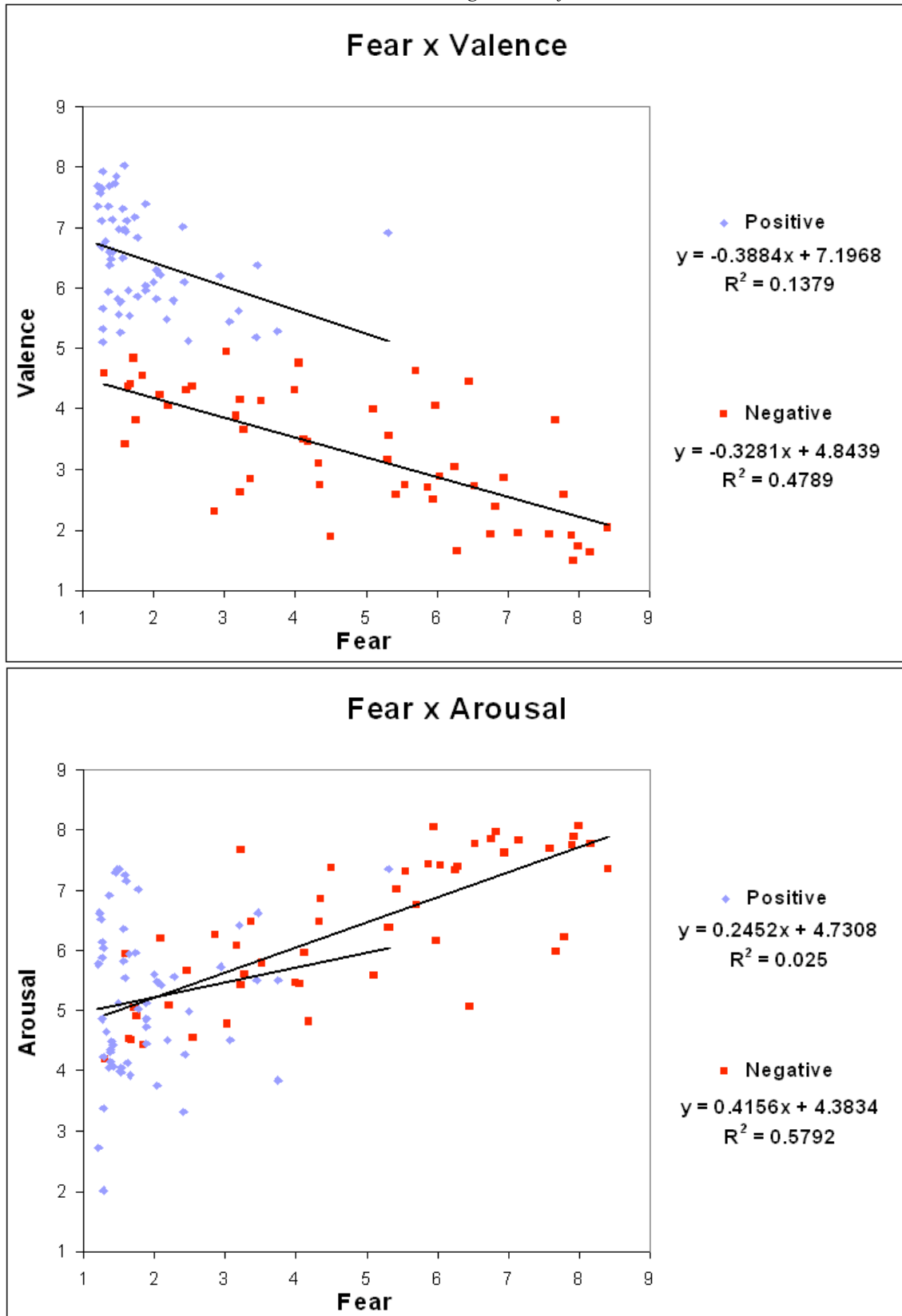


Figure 2g: Happiness related to Dominance

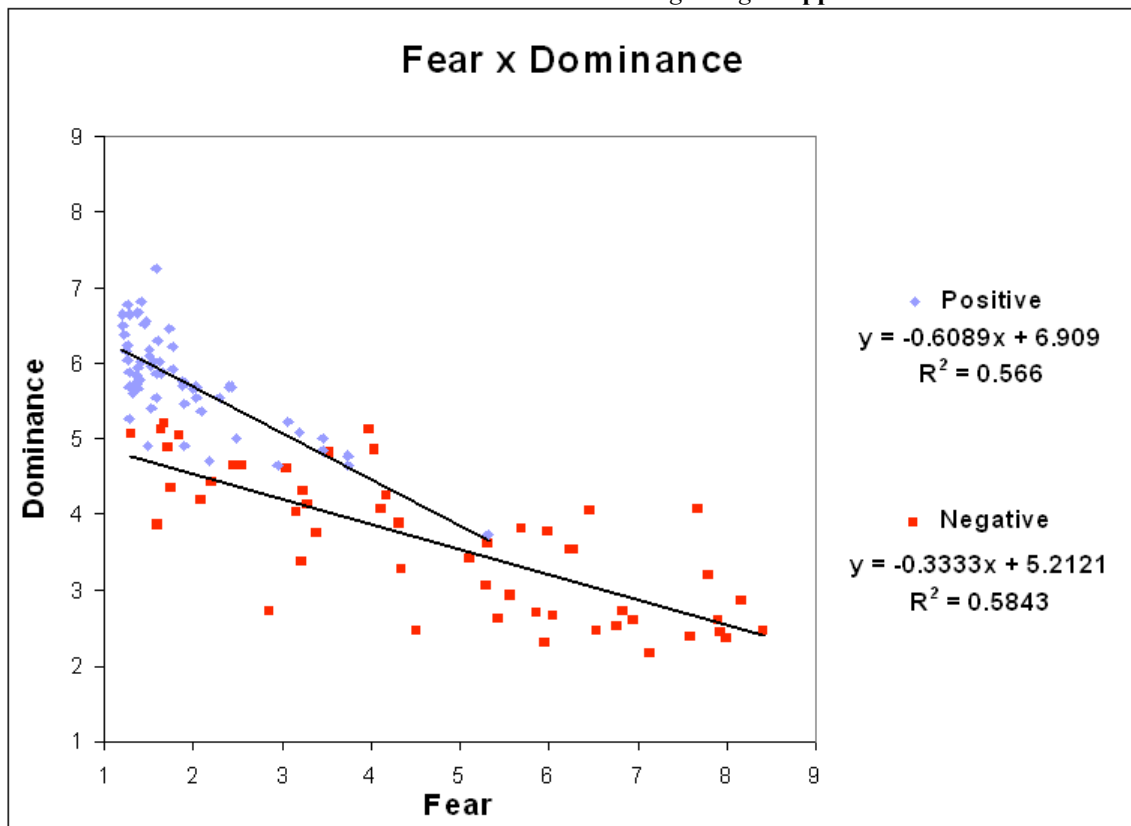


Figure 3a & b: Anger related to Happiness and Fear

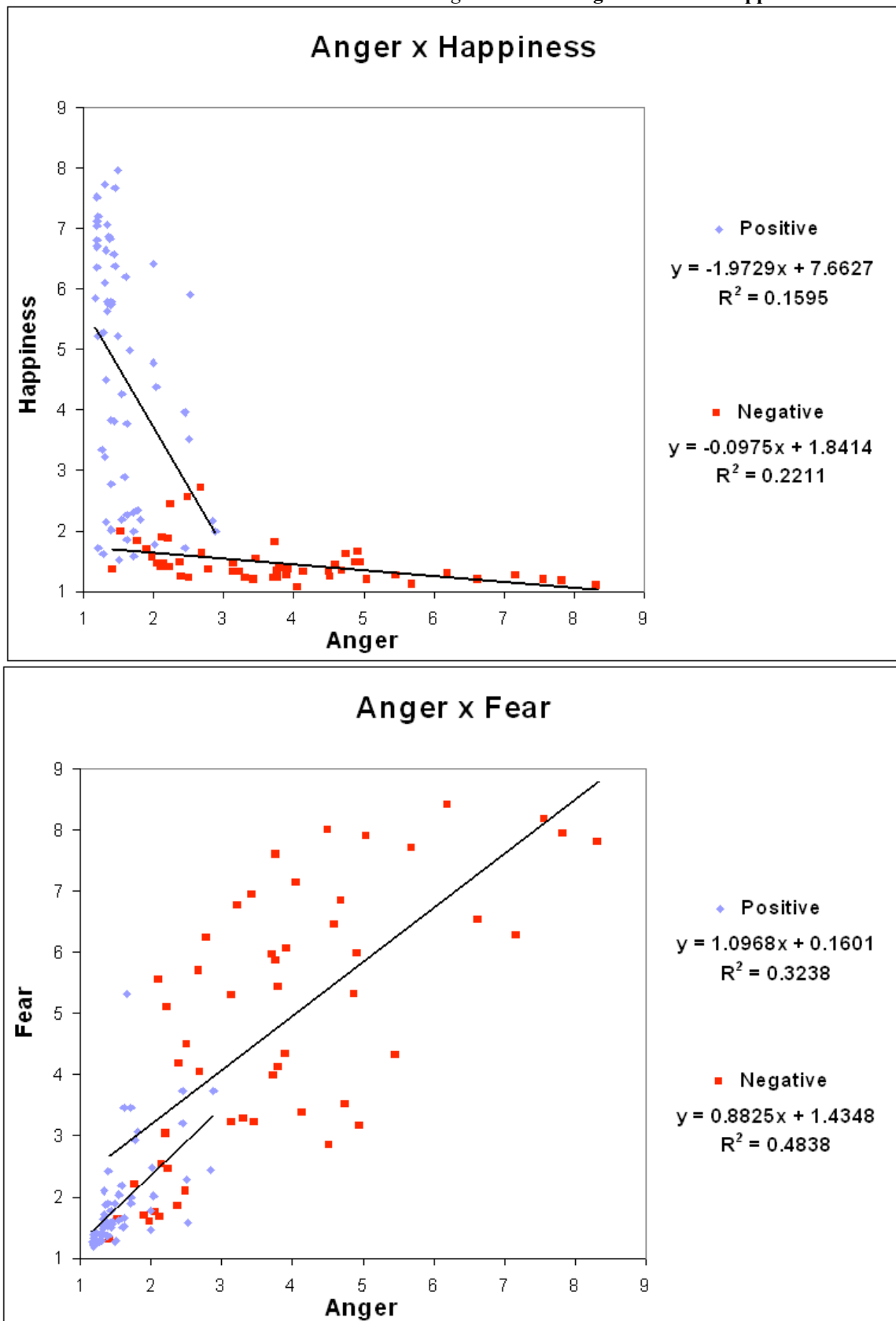


Figure 3c & d: Anger related to Disgust and Sadness

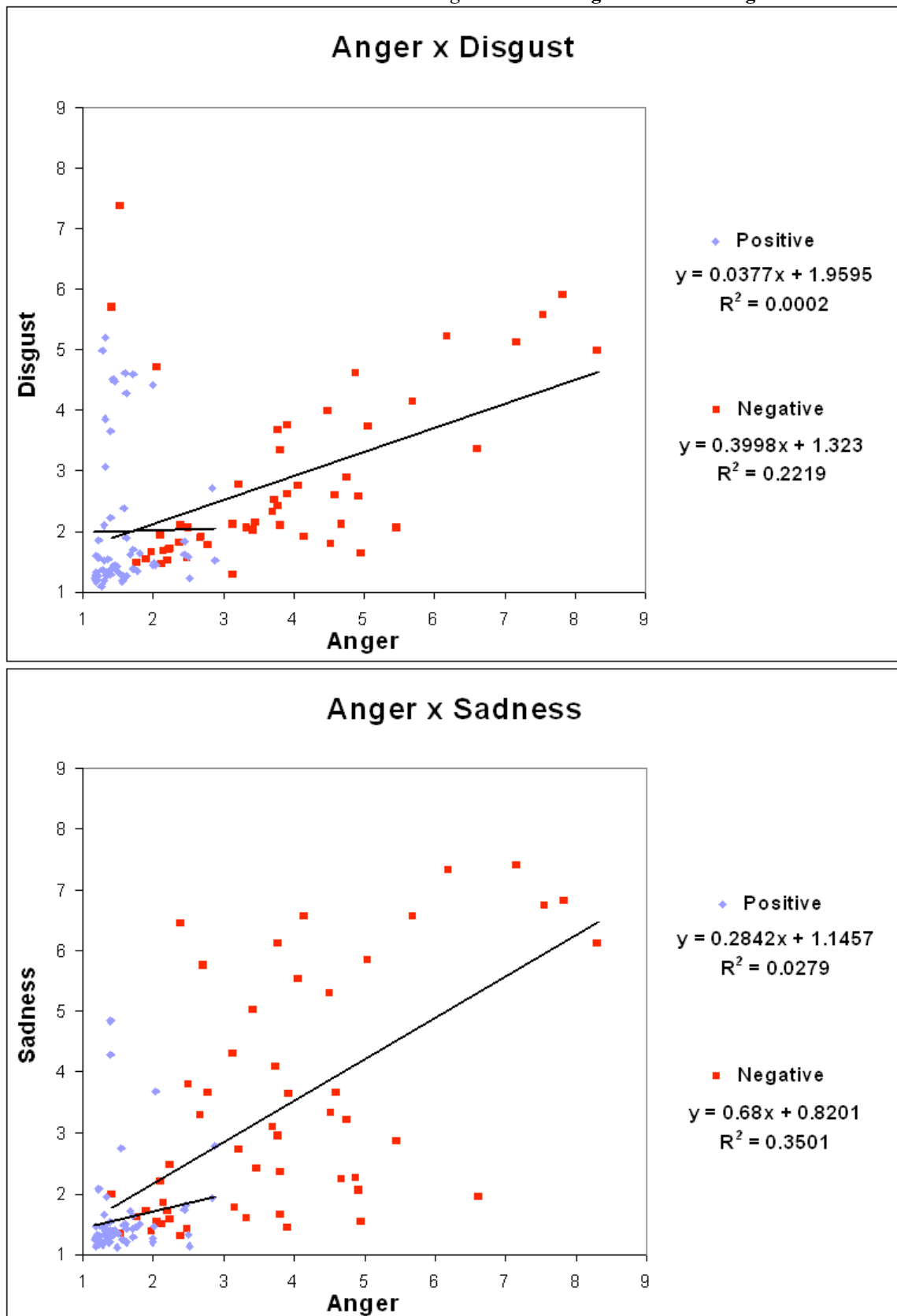


Figure 3e & f: Anger related to Valence and Arousal

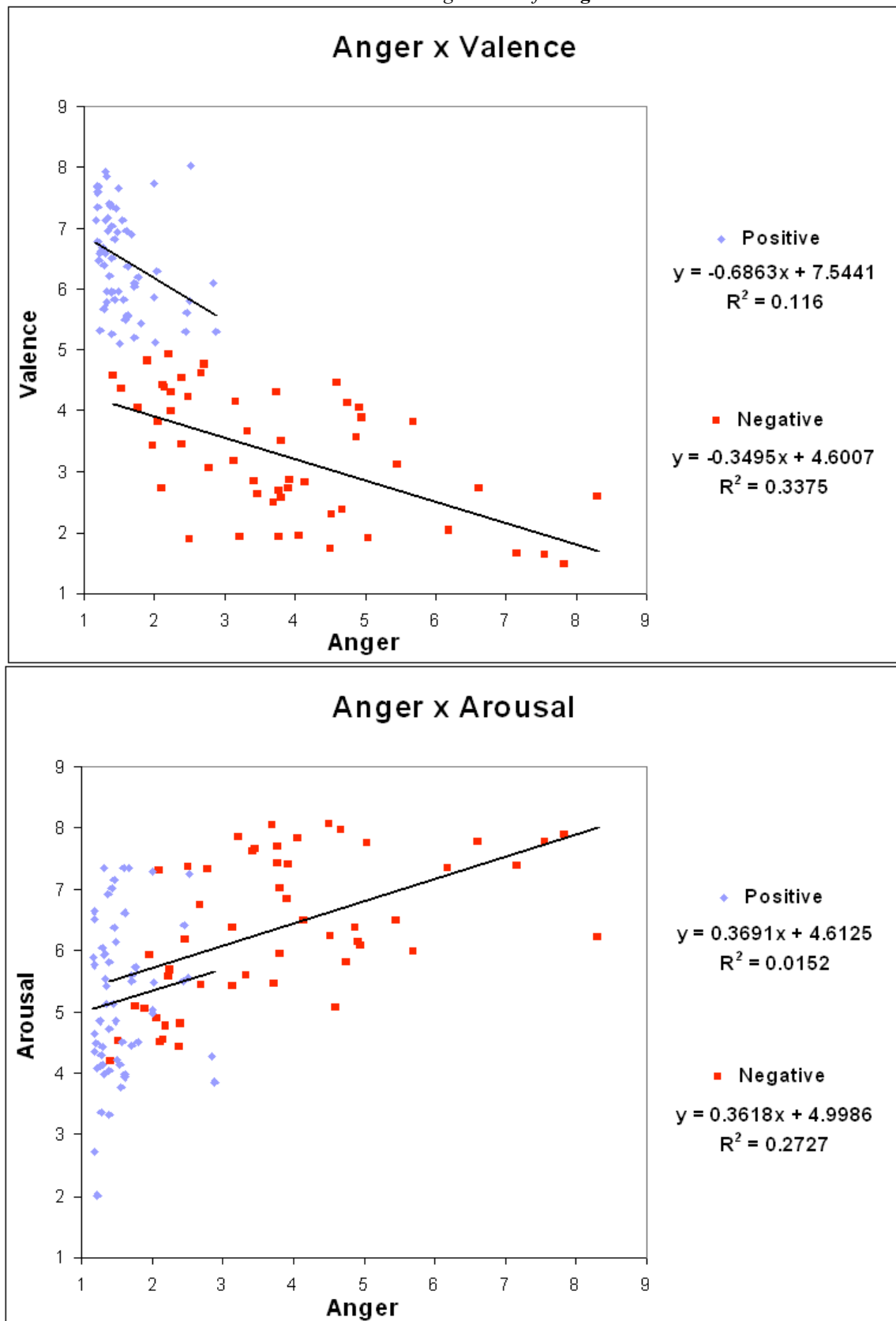


Figure 3g: Anger related to Dominance

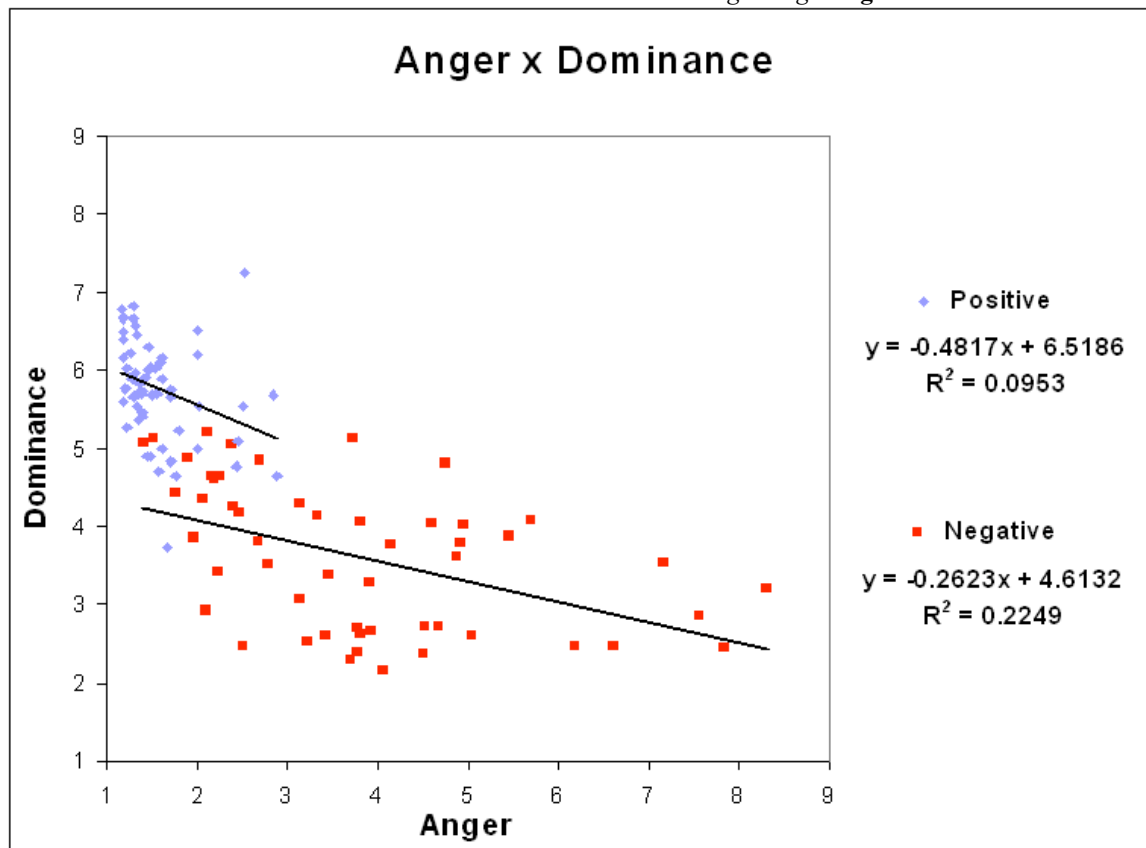


Figure 4a & b: Disgust related to Happiness and Fear

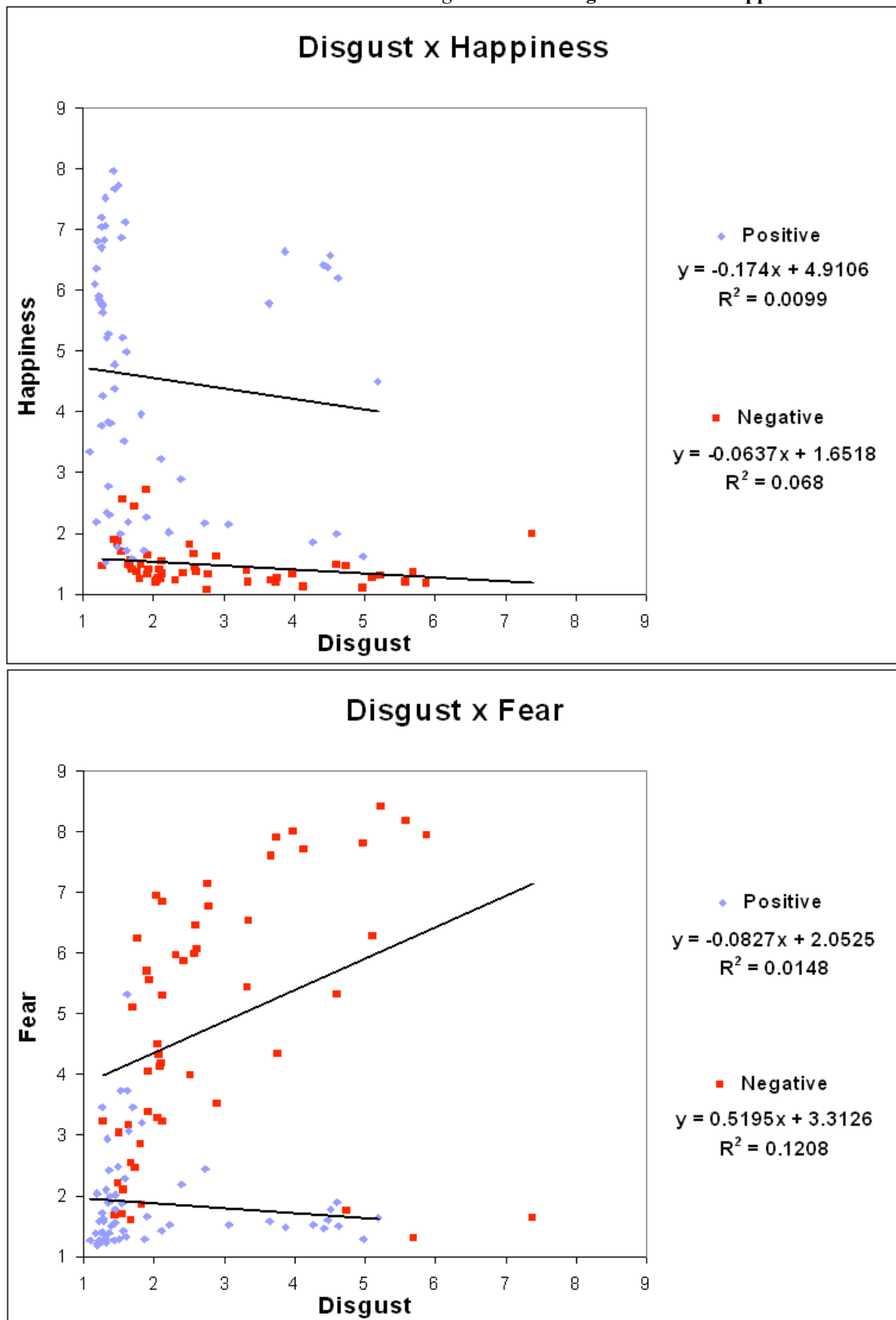


Figure 4c & d: Disgust related to Anger and Sadness

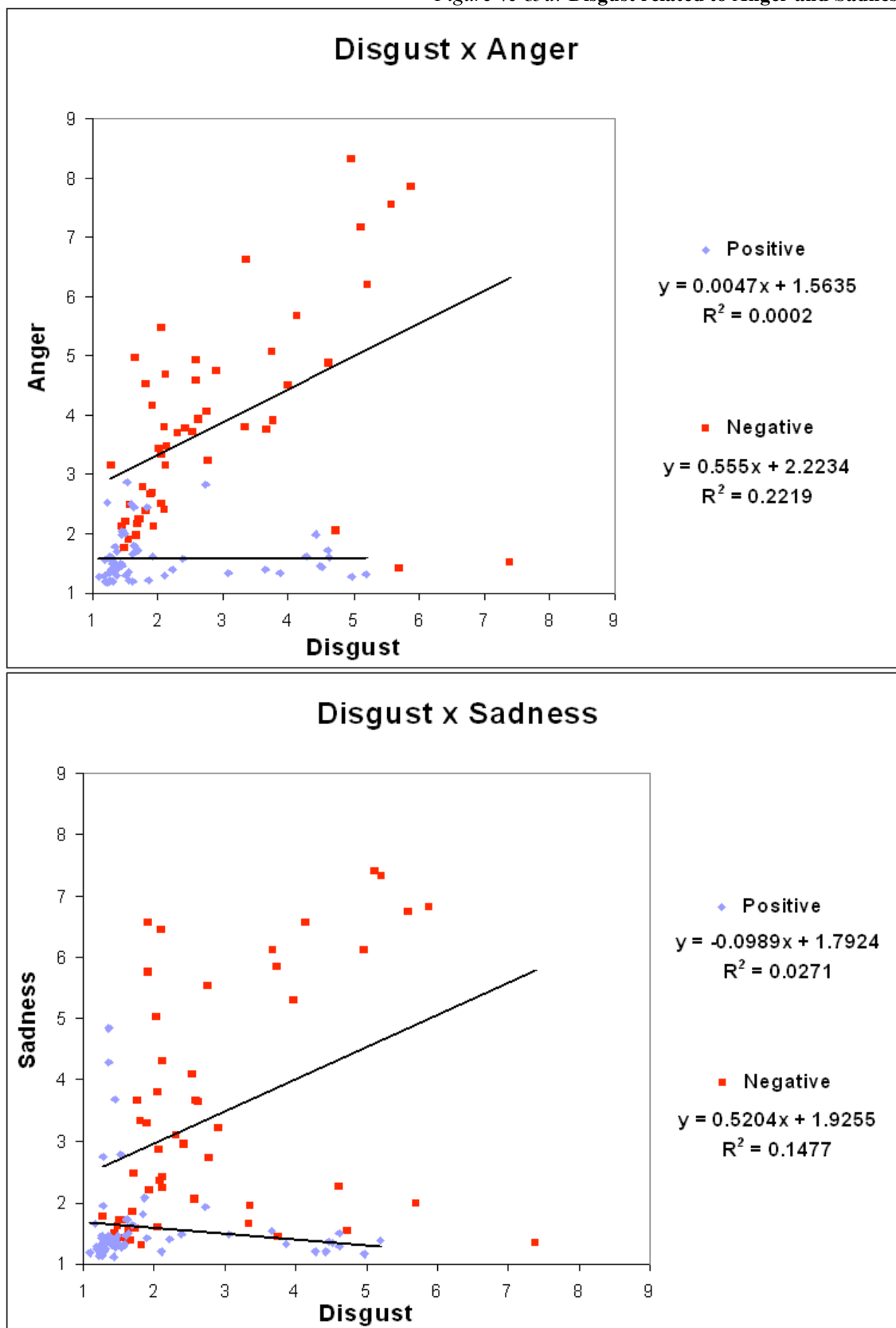


Figure 4e & f: Disgust related to Valence and Arousal

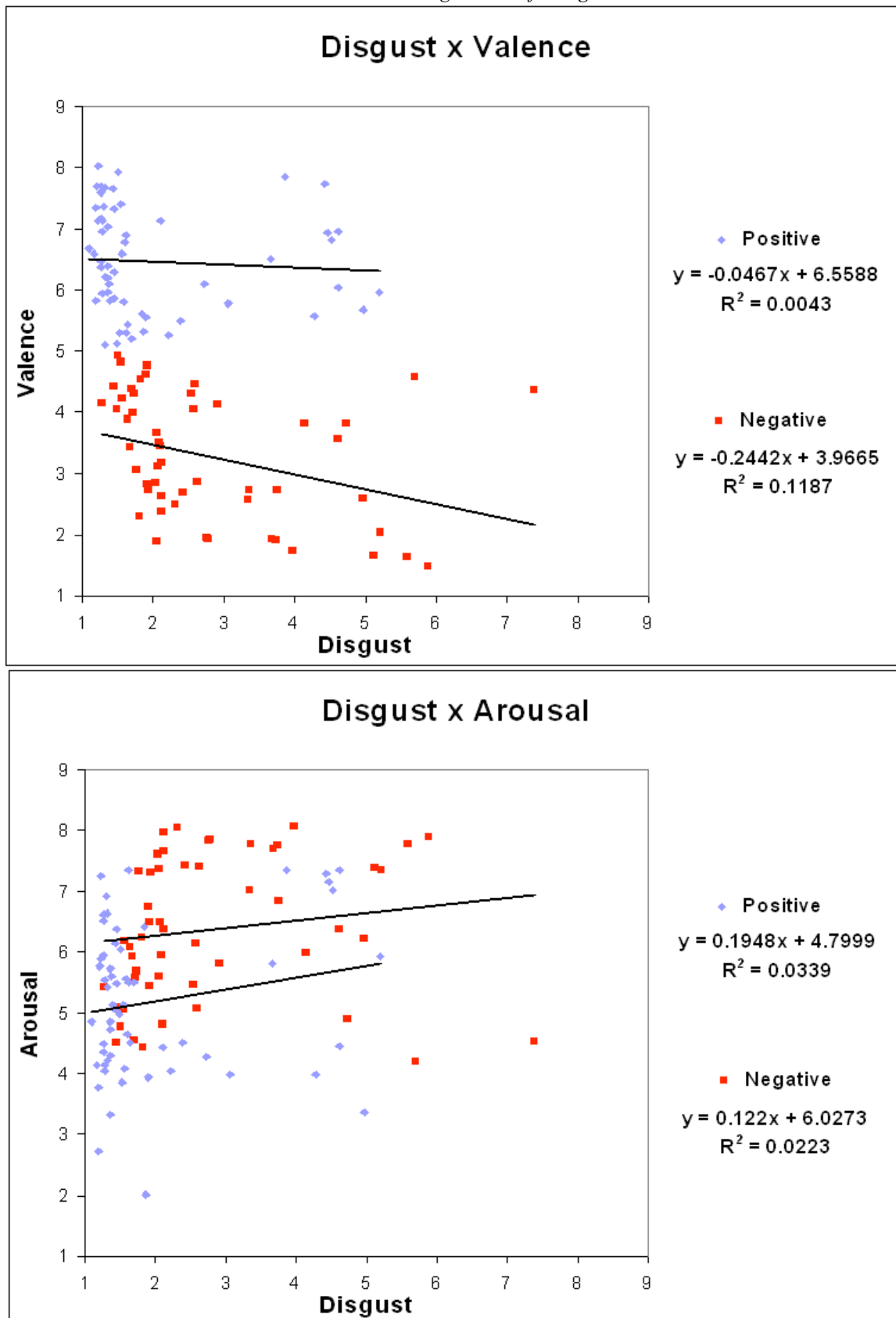


Figure 4g: Disgust related to Dominance

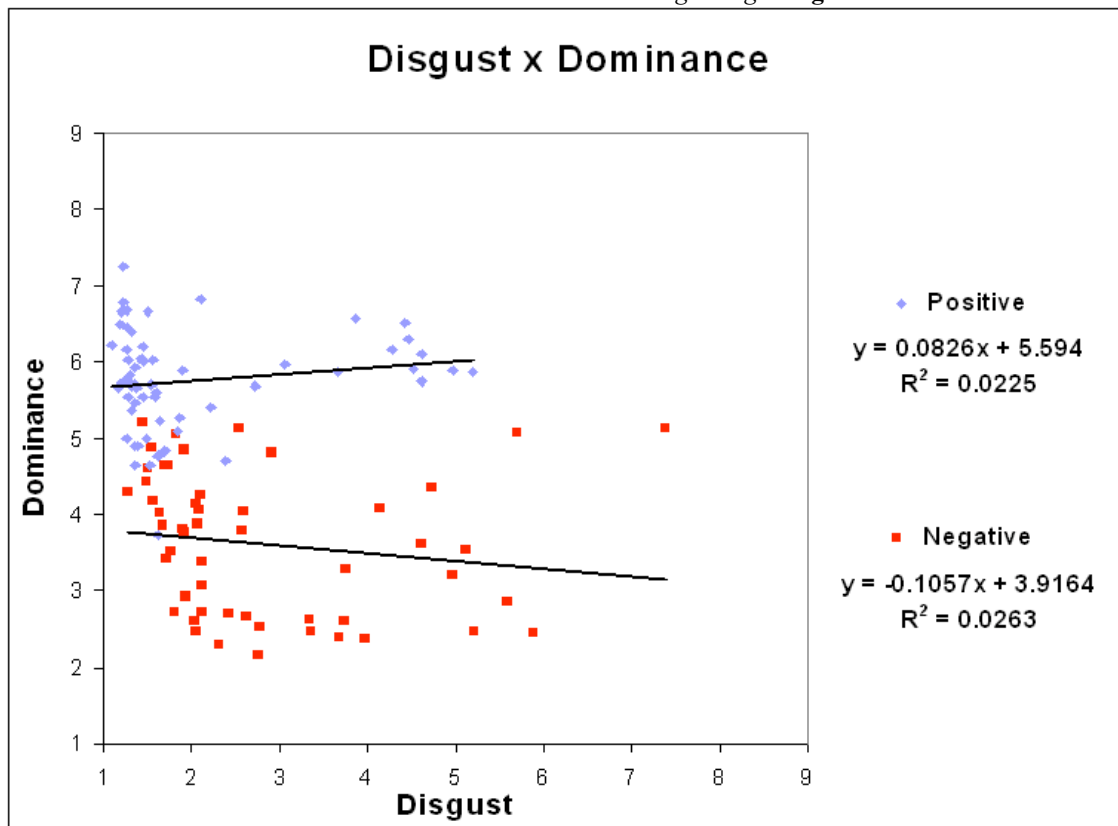


Figure 5a & b: Sadness related to Happiness and Fear

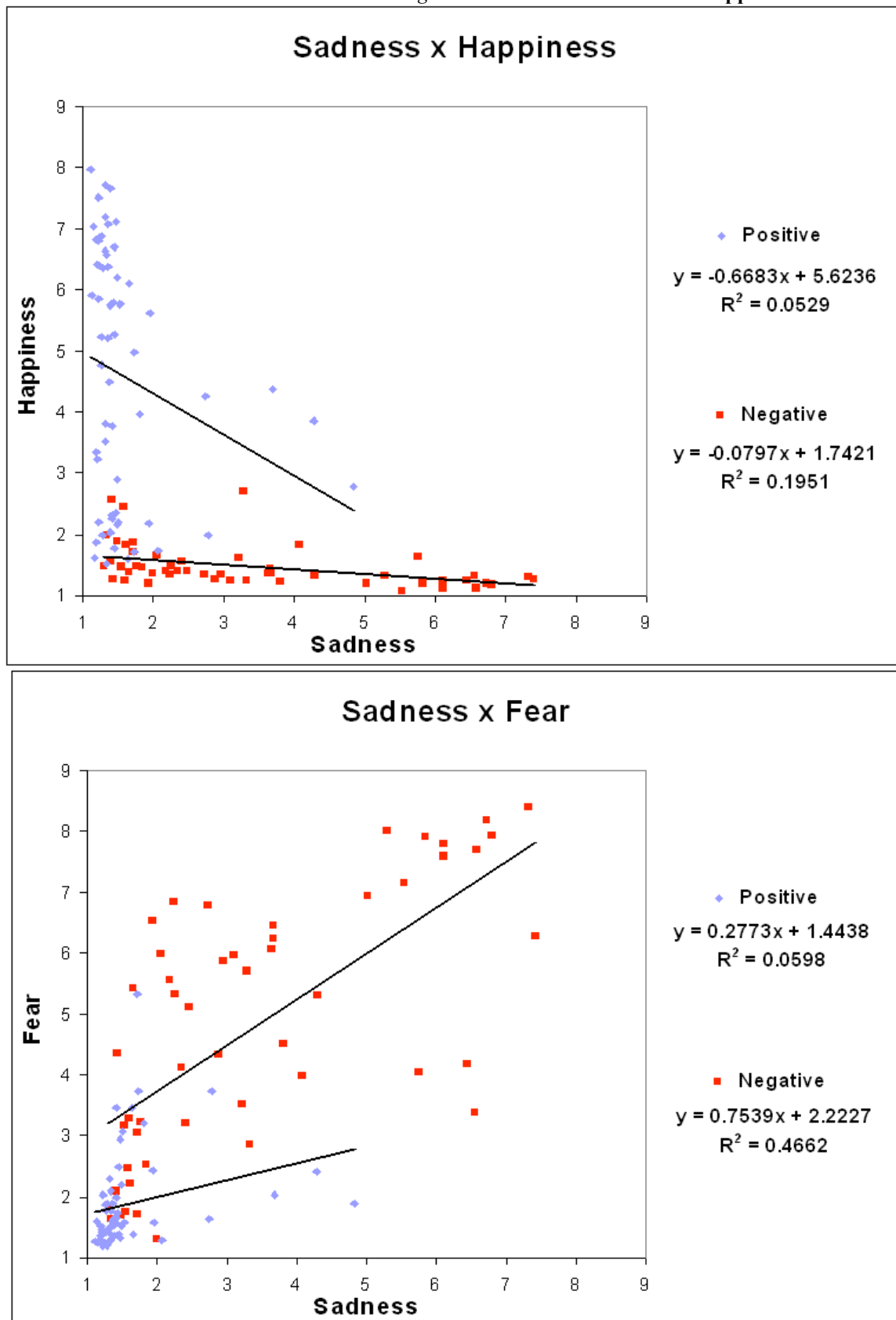


Figure 5c & d: Sadness related to Anger and Disgust

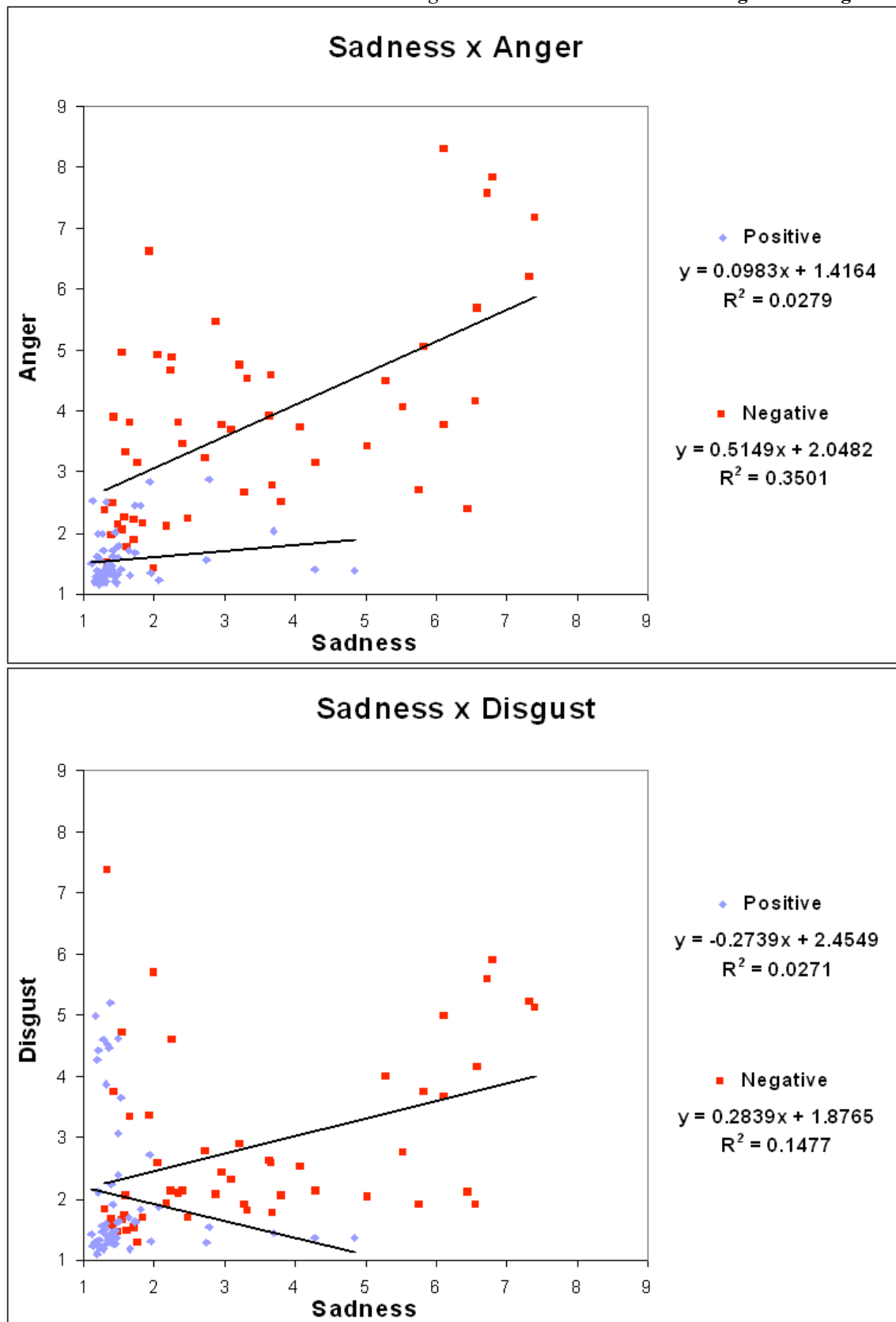


Figure 5e & f: Sadness related to Valence and Arousal

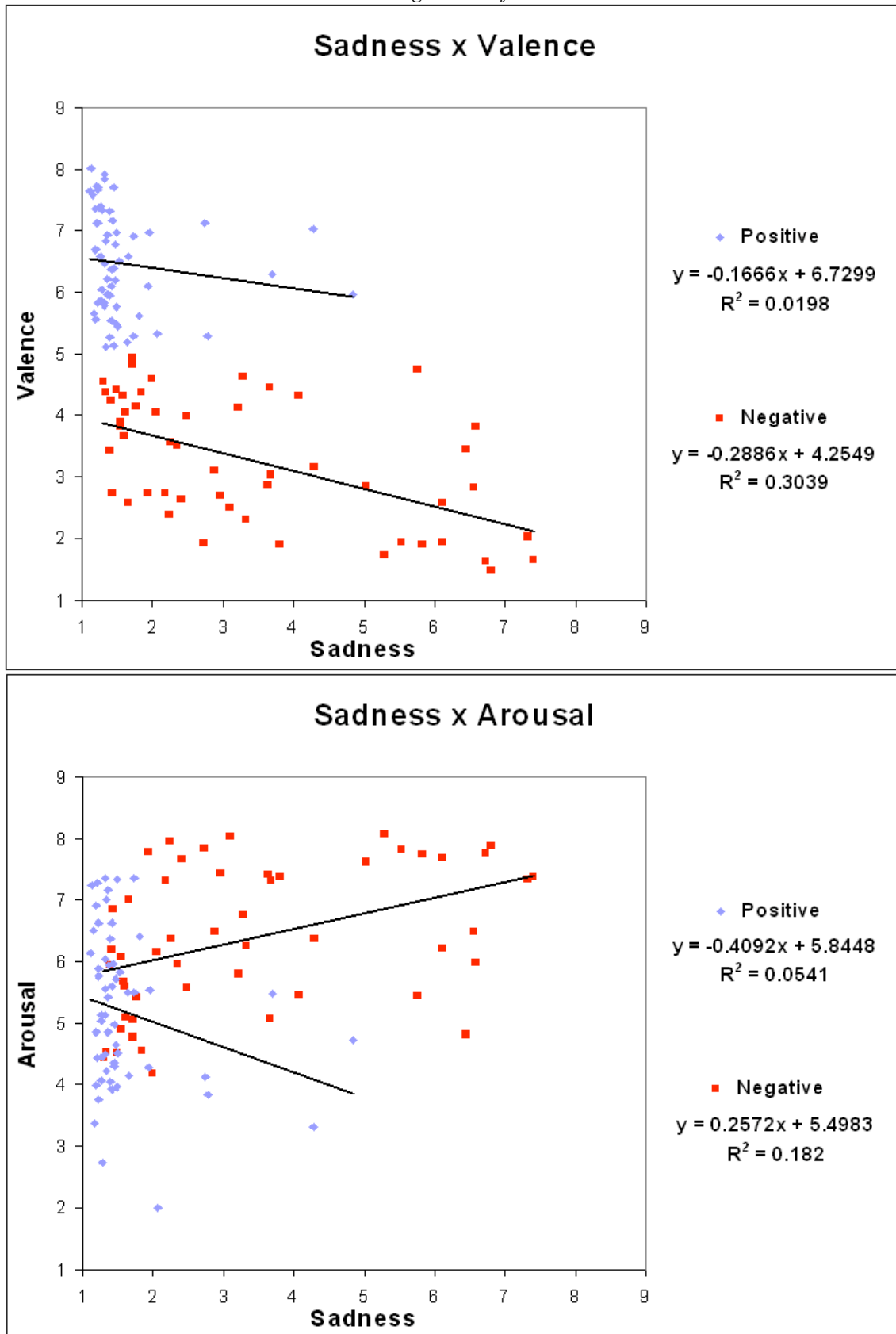


Figure 5g: Sadness related to Dominance

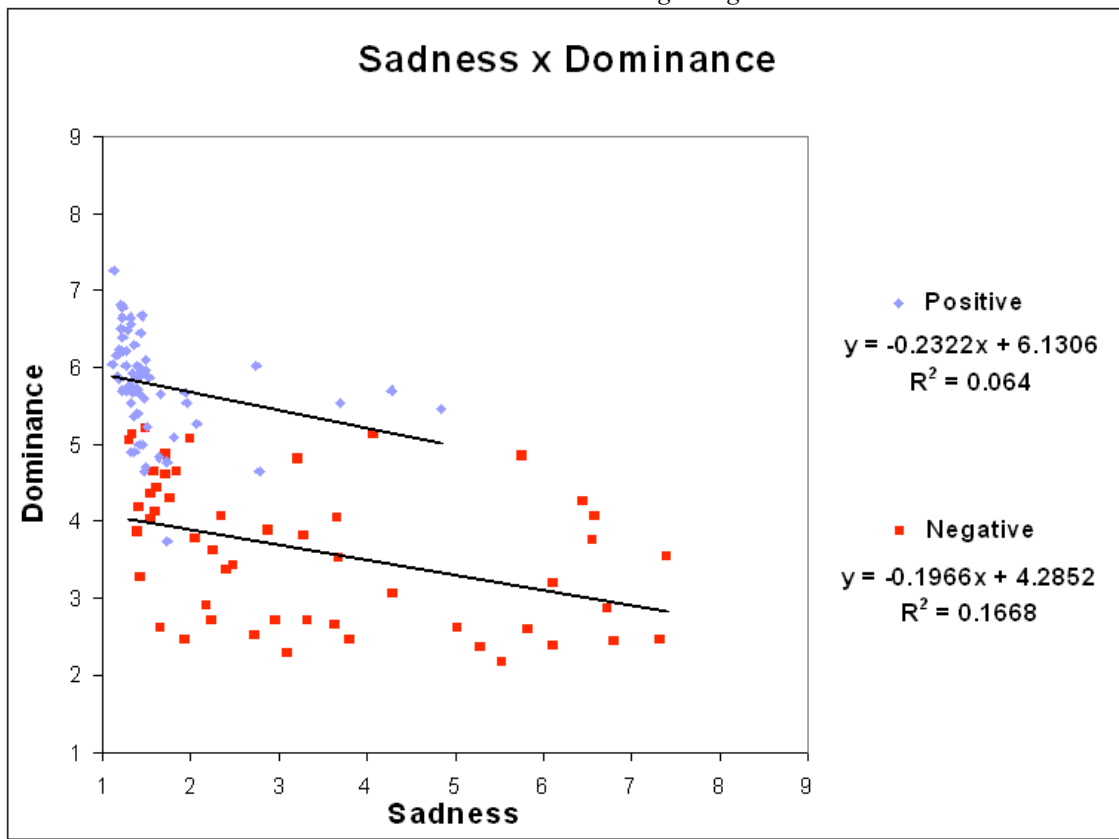


Figure 6a & b: Valence related to Happiness and Fear

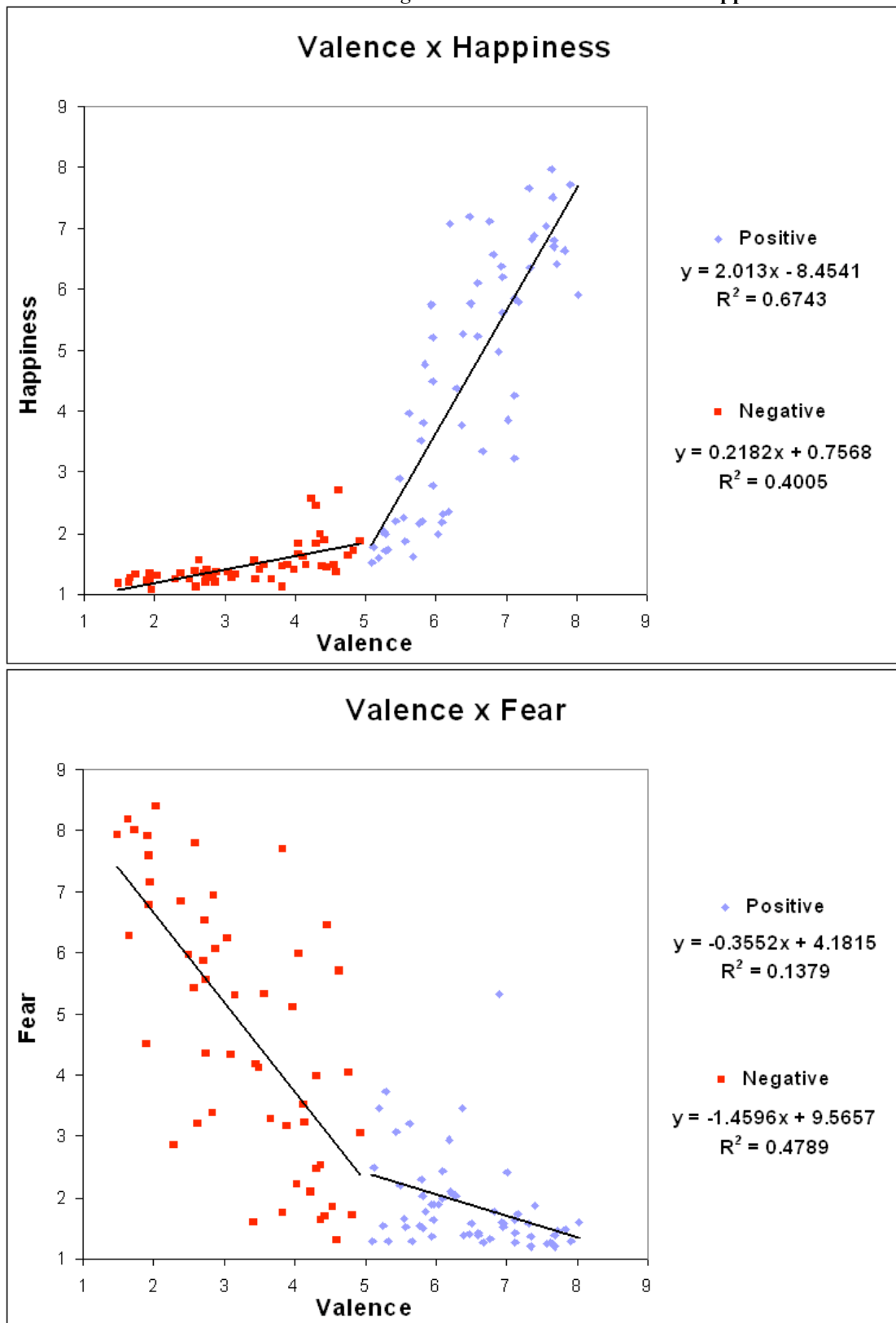


Figure 6c & d: Valence related to Anger and Disgust

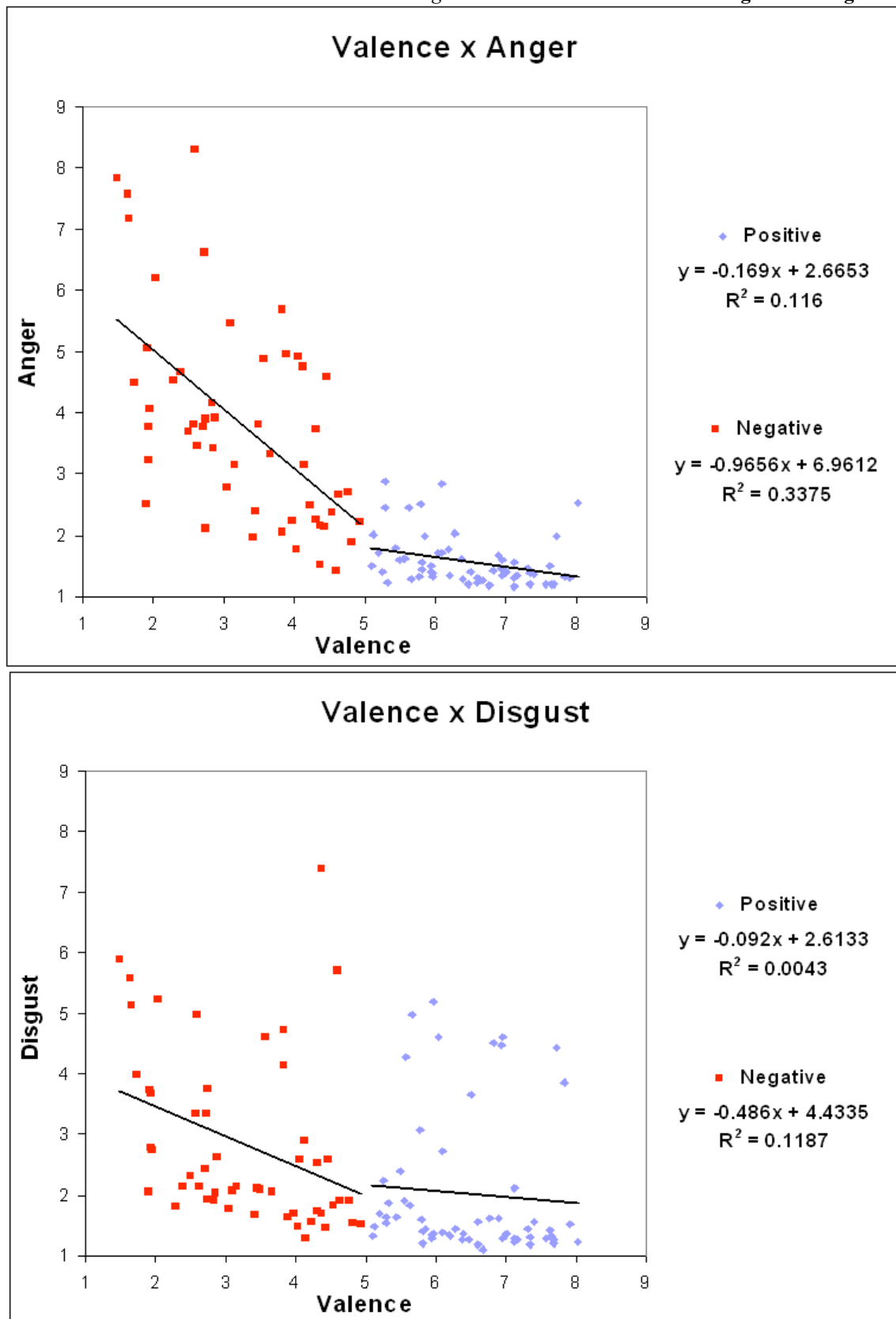


Figure 6c & d: Valence related to Sadness and Arousal

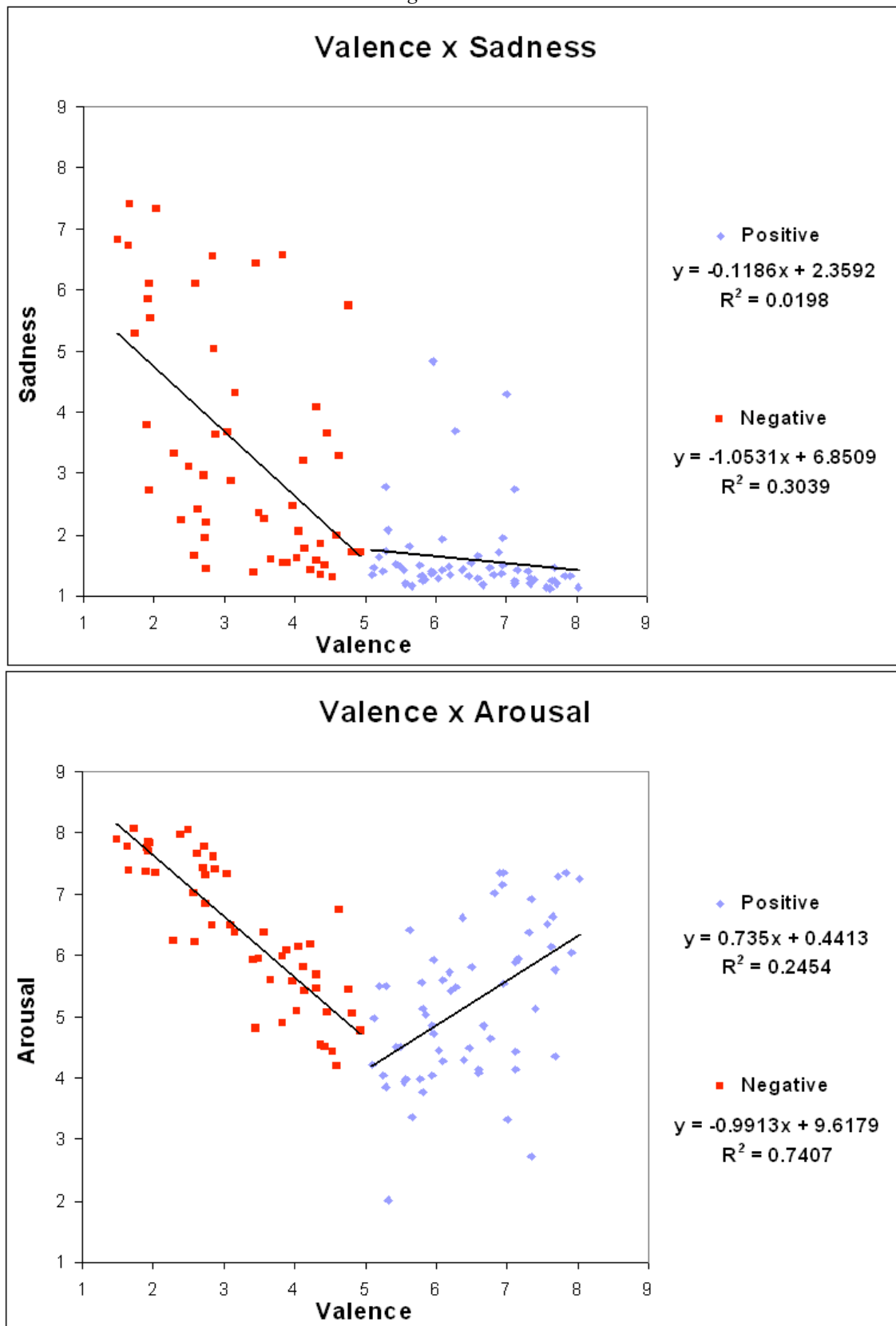


Figure 6g: Valence related to Dominance

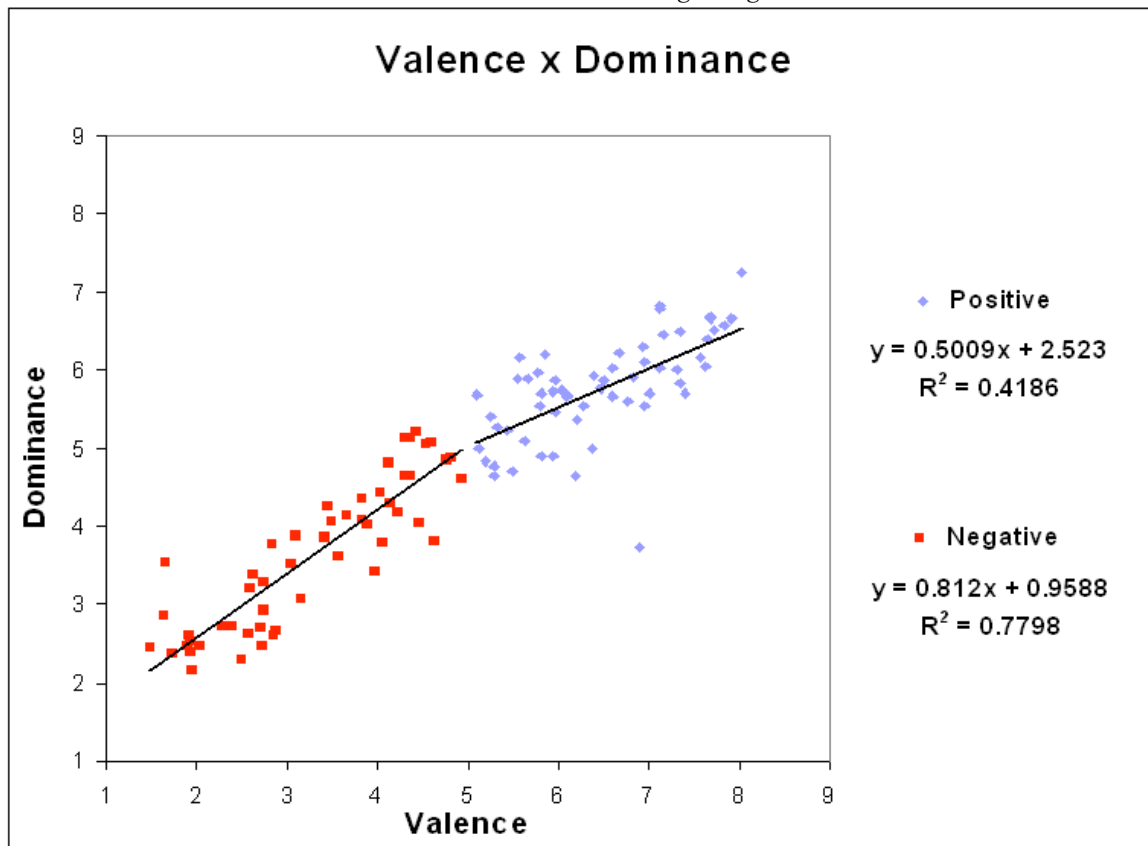


Figure 7a & b: Arousal related to Happiness and Fear

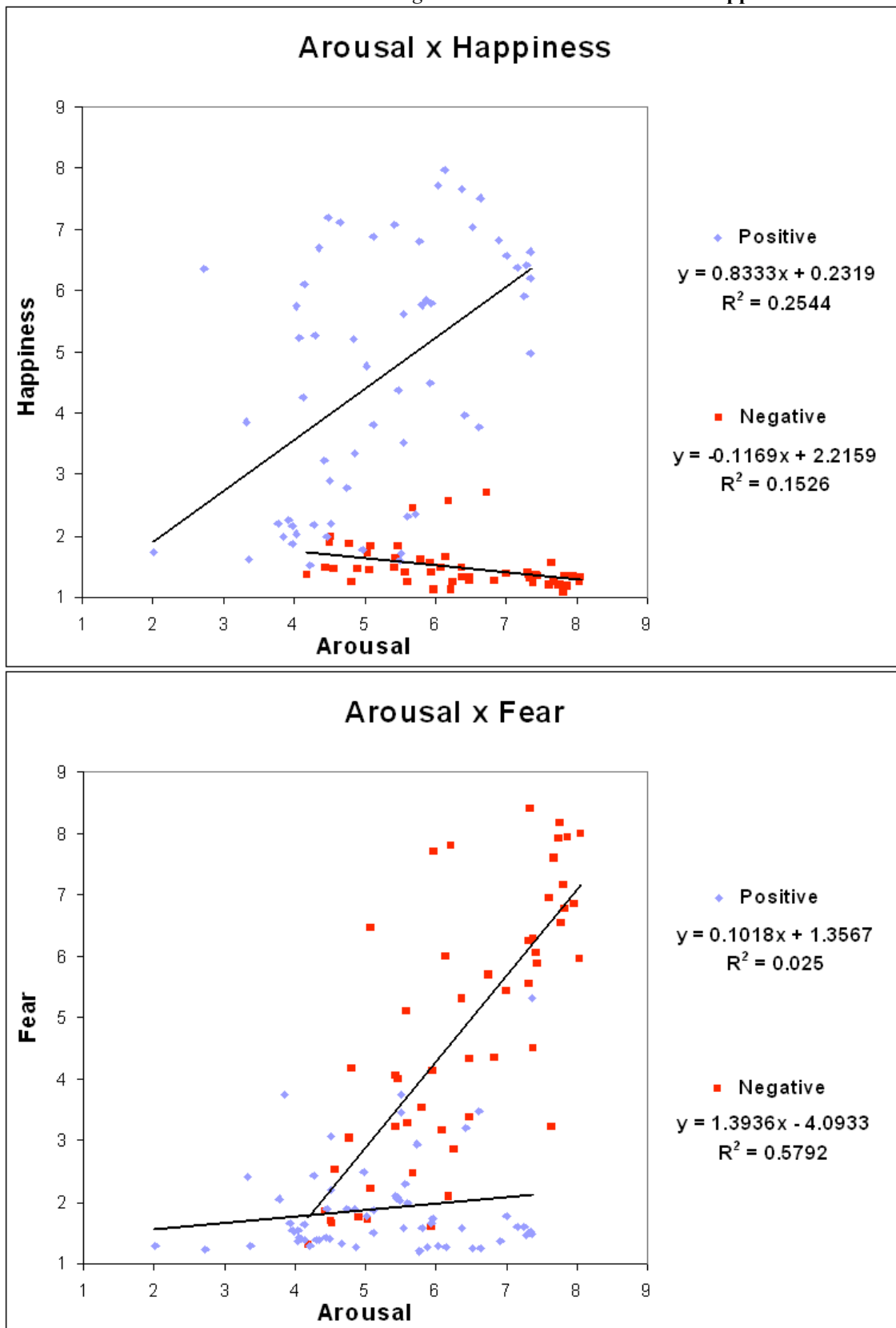


Figure 7c & d: Arousal related to Anger and Disgust

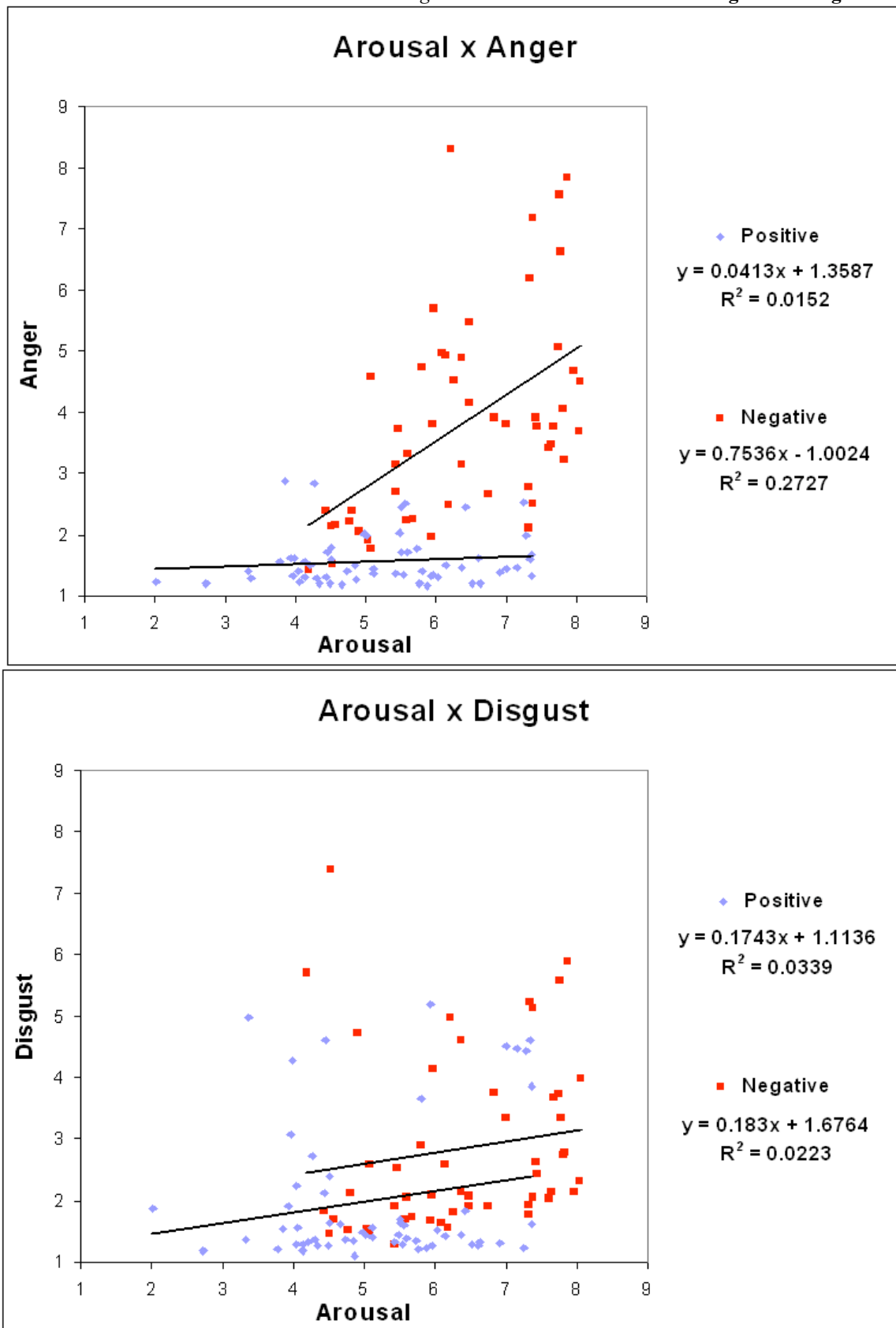


Figure 7e & f: Arousal related to Sadness and Valence

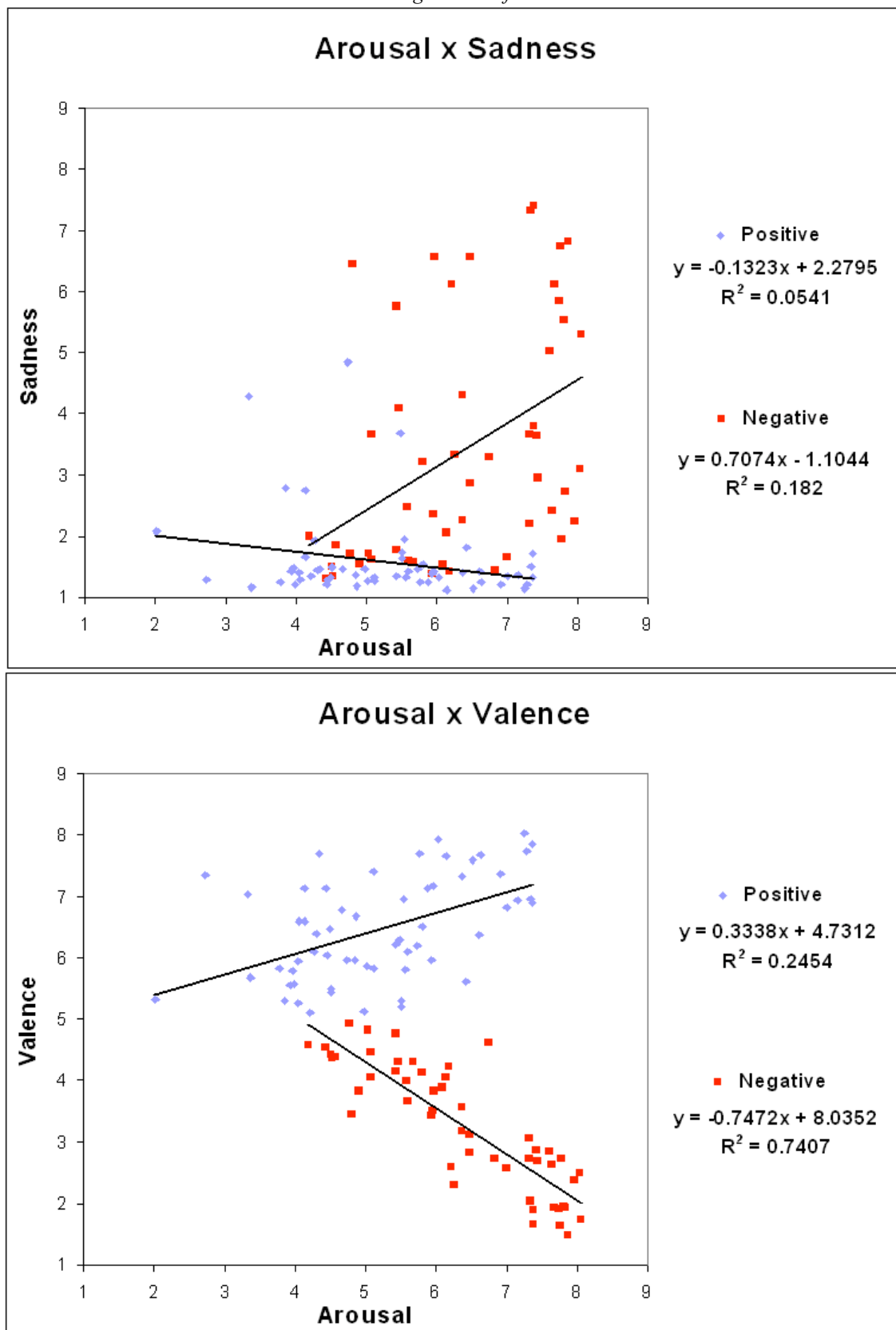


Figure 7g: Arousal related to Dominance

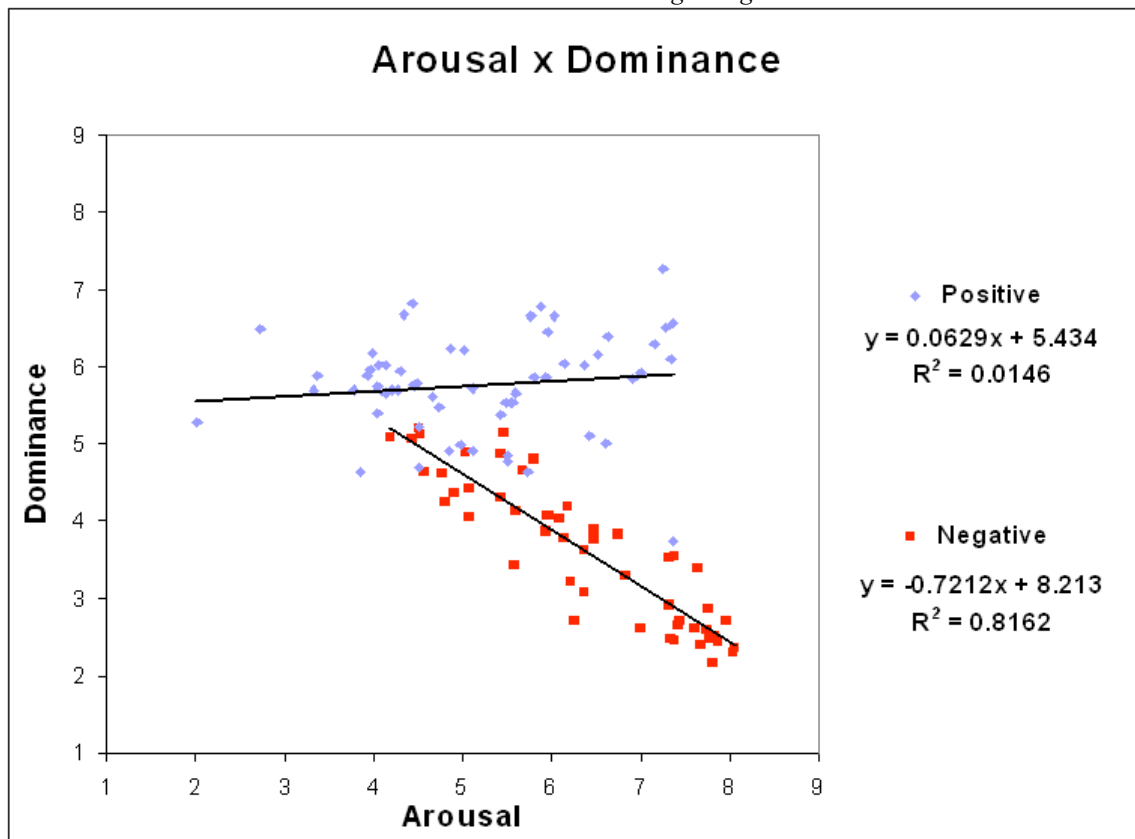


Figure 8a & b: Dominance related to Happiness and Fear

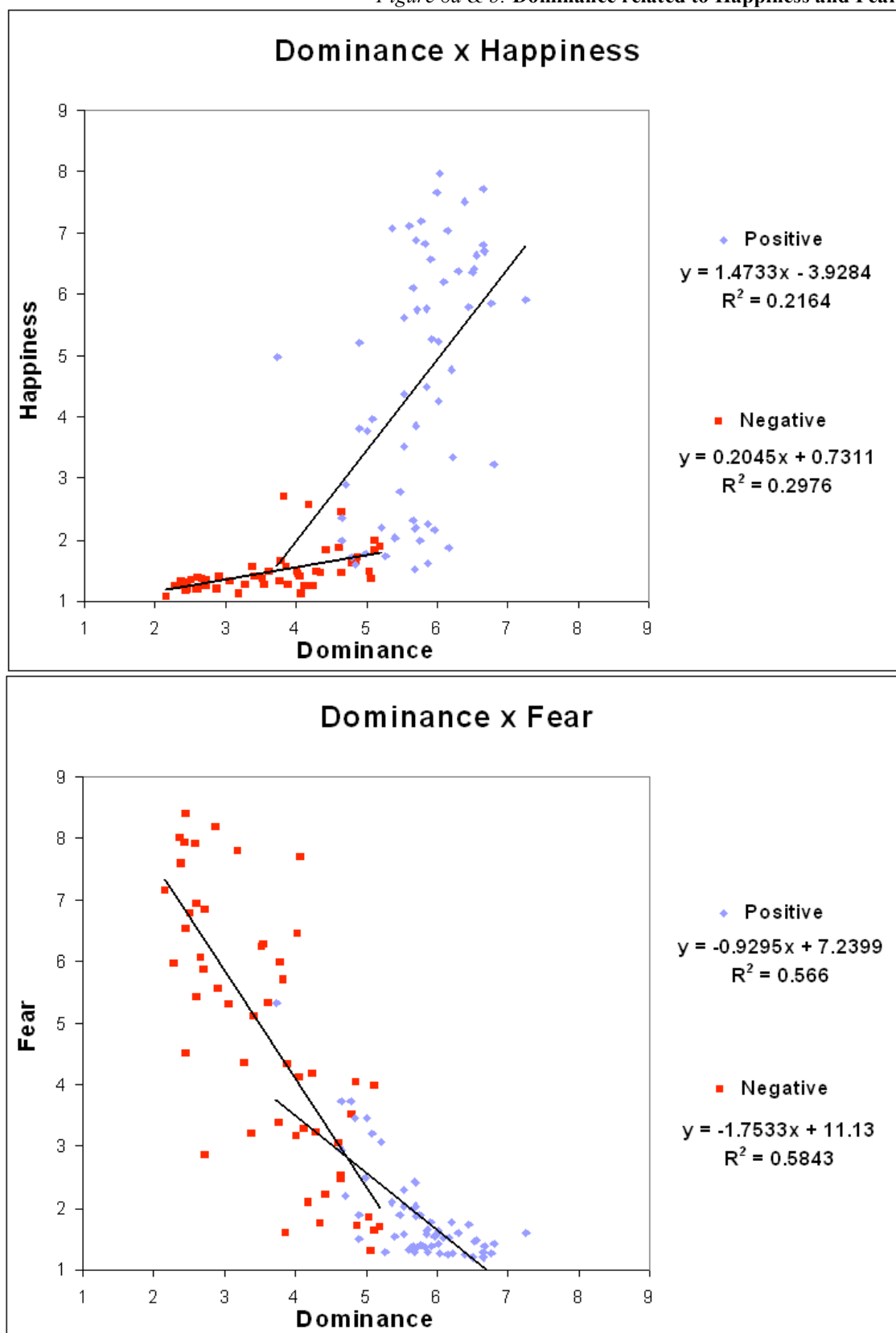


Figure 8c & d: Dominance related to Anger and Disgust

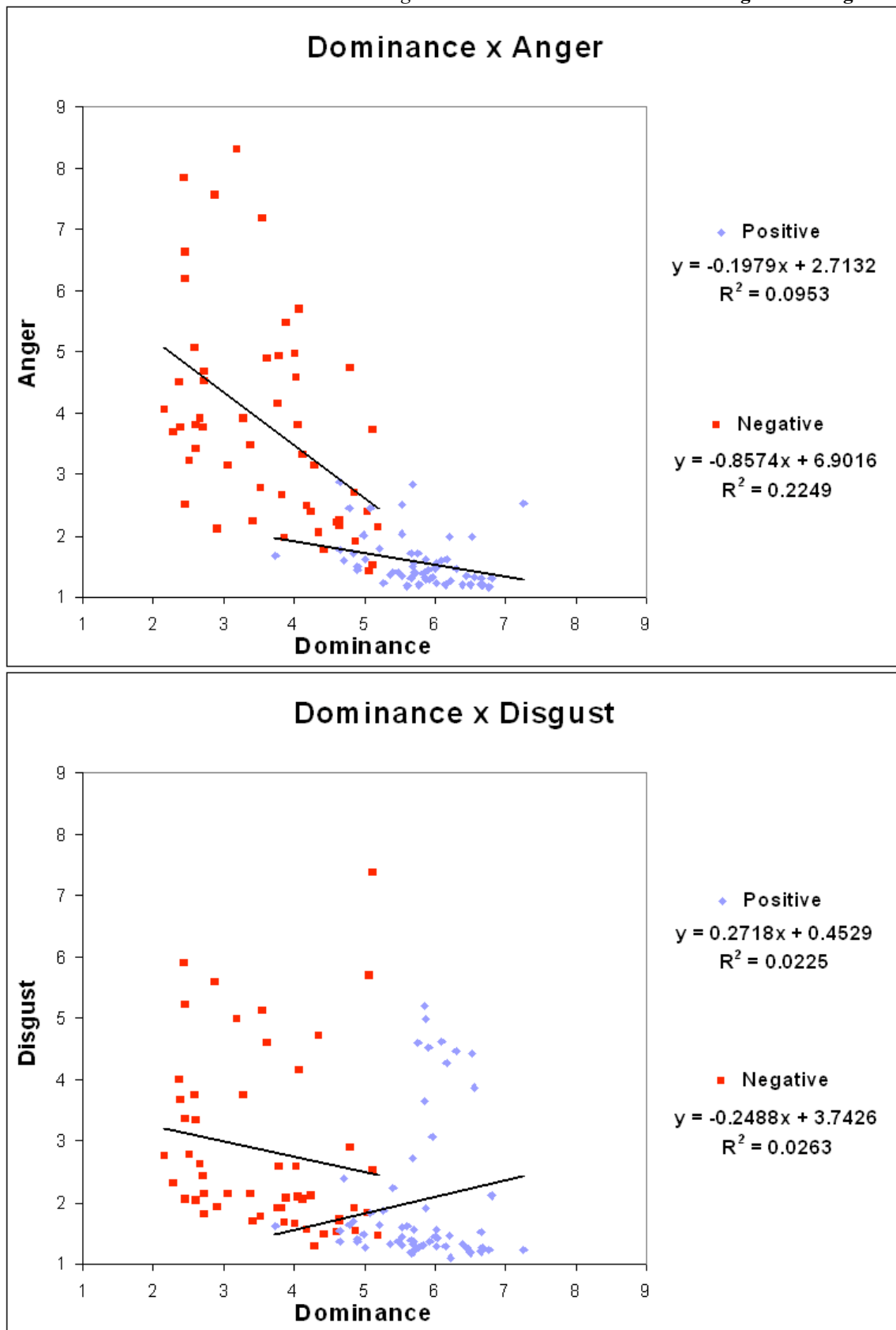


Figure 8e & f: Dominance related to Sadness and Valence

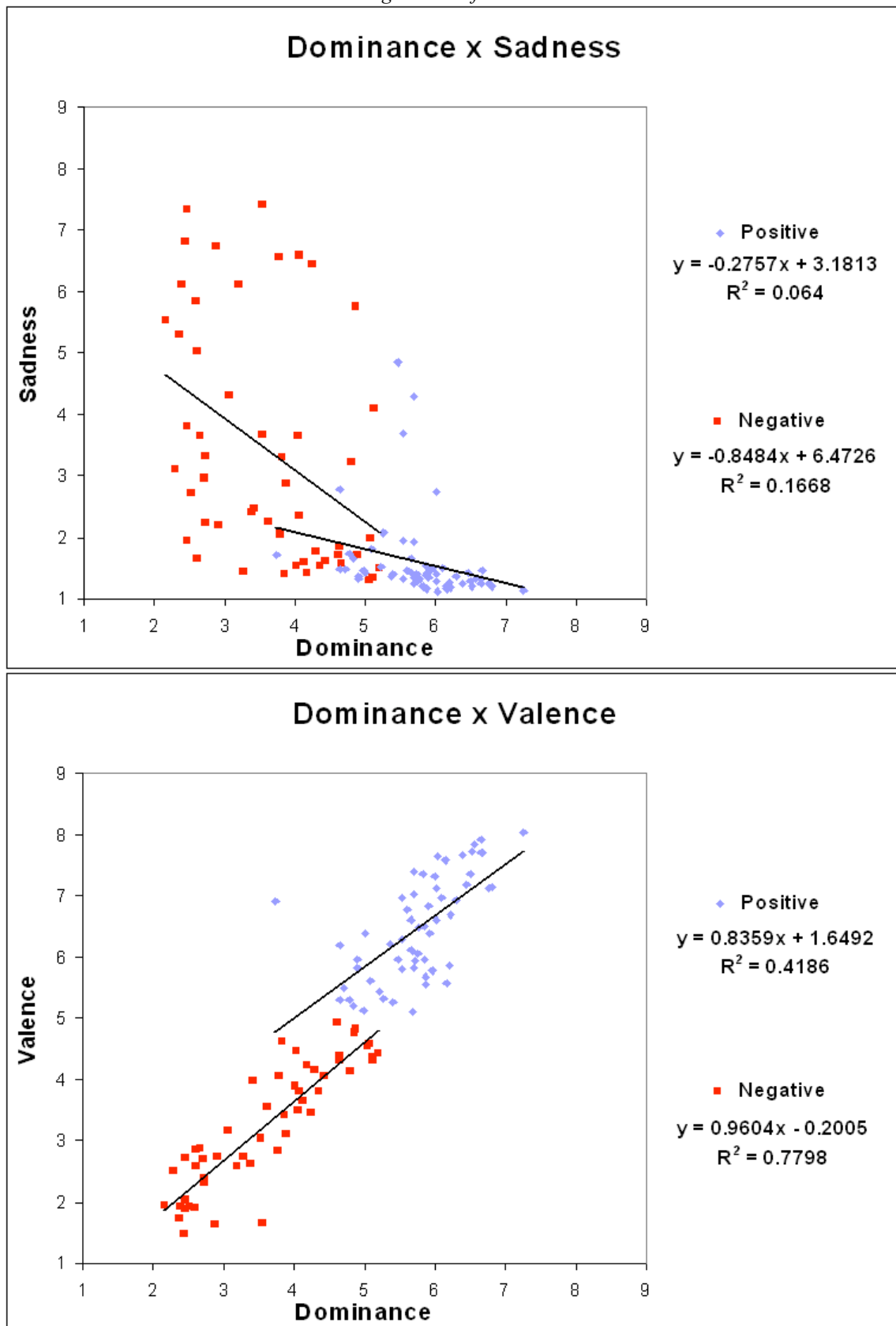


Figure 8g: Dominance related to Arousal

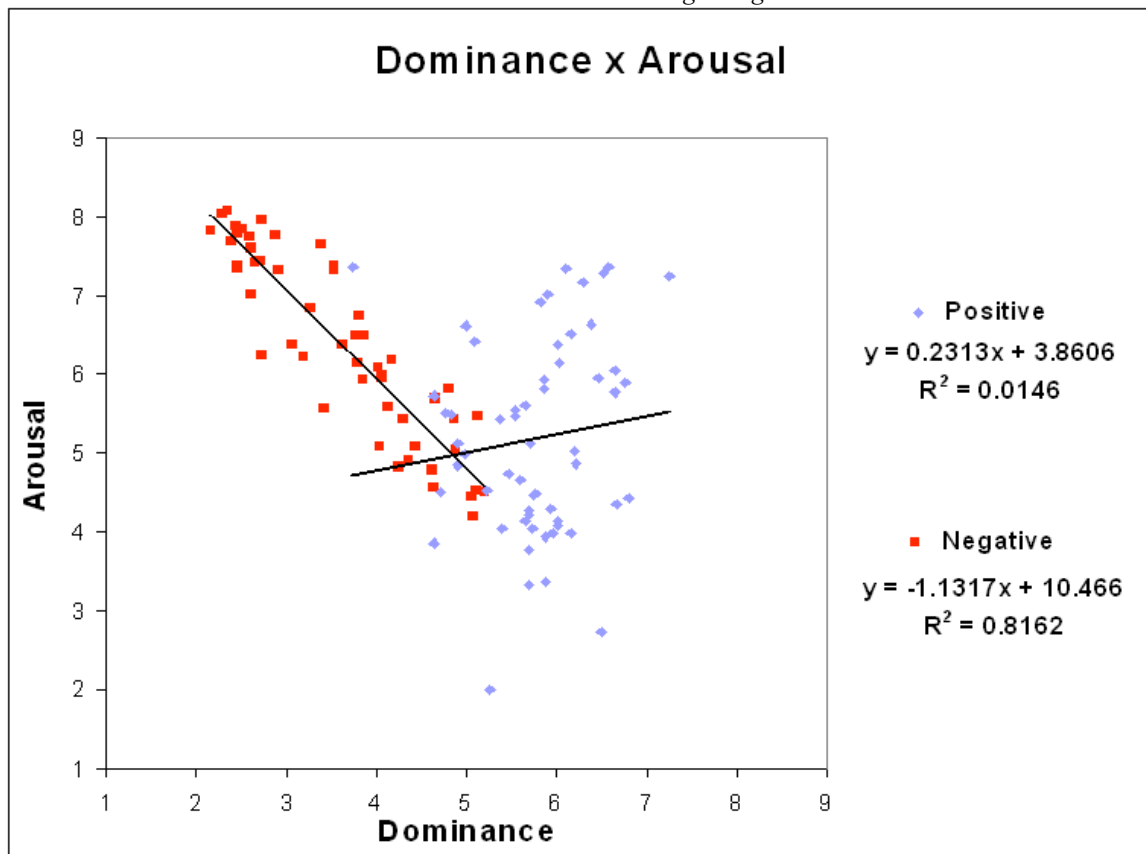


Table 1: All Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
TomCat	100			1.8243	1.8159	3.9865	2.5238	3.7297	2.5498	2.527	2.2648	4.0811	2.5415	74
PuppyCry	105		S	1.6438	1.6863	4.0411	2.801	2.6986	2.3075	1.9178	1.8009	5.7534	2.7878	73
DogGrowl	106	AF	AF	1.2027	0.5963	6.5405	2.6493	6.6216	2.6726	3.3514	2.7169	1.9459	1.6626	74
Carousel	109	H	H	7.0694	2.3215	2.0972	1.8852	1.3472	1.0503	1.3194	1.0592	1.3472	1.1279	72
BabyLaugh	110	H	H	7.7162	2.0708	1.2838	0.8993	1.2973	1.1905	1.5135	1.4734	1.3108	1.0193	74
MusicBox	111		HS	4.375	2.8256	2.0278	1.8912	2.0278	1.846	1.4444	1.4427	3.6944	2.5099	72
KidsInPark	112	H	H	7.2027	2.0738	1.3919	1.1446	1.2027	0.9063	1.2568	0.8923	1.3108	1.0459	74
Cows	113			2.1622	1.9656	2.4324	2.0613	2.8378	2.2997	2.7297	2.2471	1.9324	1.7307	74
Bees	115		F	1.3784	1.119	5.4324	2.8673	3.8108	2.6775	3.3378	2.6857	1.6622	1.3576	74
Wasp	116		AFD	1.2667	0.7769	4.3467	2.8068	3.9067	2.886	3.76	2.9078	1.44	1.0935	75
Rooster	120			2.4459	2.1271	2.4595	2.1145	2.2432	2.0055	1.7297	1.4363	1.5811	1.3849	74
Pig	130		AFD	1.48	1.2772	5.32	2.7664	4.88	2.7261	4.6133	2.945	2.2533	1.8679	75
Chickens	132			2.2533	1.9108	1.6533	1.3606	1.6133	1.24	1.9067	1.9602	1.4133	1.0279	75
Bear	133		AF	1.6622	1.4265	5.9865	2.7918	4.9189	2.8896	2.5811	2.2022	2.0541	1.7896	74
Cardinal	151	H	H	6.3611	2.5415	1.2083	0.9335	1.1944	0.6846	1.1806	0.9689	1.2778	0.9674	72
Tropical	152	H	H	5.2133	2.6676	1.8933	1.7597	1.4933	1.2233	1.3467	1.133	1.36	0.9676	75
CountryNight	171			2.9067	2.3548	2.1867	1.865	1.5867	1.0792	2.3867	2.1679	1.48	1.0314	75
EroticCouple	200	HD	H	6.1918	2.8463	1.5068	1.4056	1.6027	1.3717	4.6164	2.8705	1.4932	1.5104	73
EroticFem1	201	H	H	6.6351	2.7277	1.473	1.3771	1.3243	0.9379	3.8649	3.0981	1.3108	0.9498	74
EroticFem2	202		H	6.3784	2.8027	1.5946	1.7195	1.4595	1.0751	4.473	3.2571	1.3514	1.3183	74
EroticFem3	205	*	H	5.7733	2.8359	1.5733	1.5172	1.4	1.3557	3.6533	2.9108	1.5333	1.1663	75
Shower	206	H	H	5.2297	2.5937	1.4189	1.1587	1.2162	0.7634	1.5541	1.4156	1.2703	0.8488	74
EroticMale1	210		HD	4.4932	3.0282	1.6438	1.5931	1.3151	0.8478	5.1918	3.1783	1.3699	0.9931	73
EroticCouple2	215		H	6.4247	2.7885	1.4521	1.4146	2	1.9579	4.4247	2.9996	1.2055	0.5764	73
EroticCouple3	216		H	6.5867	2.6257	1.7733	1.8201	1.4267	1.3574	4.52	3.0061	1.3333	0.9492	75
BoyLaugh	220	H	H	7.9589	1.7515	1.2603	0.9432	1.4932	1.6593	1.4247	1.3532	1.1096	0.356	73
MaleLaugh	221	H	H	6.8667	2.2859	1.88	1.7931	1.36	1.1583	1.5467	1.3385	1.2667	1.0569	75
ClapGame	225	H	H	5.2703	2.49	1.3784	1.043	1.2838	0.9439	1.3649	0.9733	1.4459	1.1121	74
Laughing	226	H	H	7.6528	1.7293	1.5694	1.4711	1.4583	1.4912	1.4444	1.2206	1.3889	1.1328	72
Giggling	230	H	H	7.1127	2.074	1.3239	0.8067	1.1831	0.5427	1.6056	1.736	1.4648	1.3398	71
NoseBlow	251	D	D	1.3514	1.1871	1.2973	0.8231	1.4189	1.0855	5.7027	3.0193	2	1.775	74

Table 1: All Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
MaleSnore	252		D	1.4595	1.1249	1.7568	1.6202	2.0541	1.9993	4.7297	2.8921	1.5405	1.2734	74
VideoGame	254	H	H	4.7703	2.6718	1.7703	1.6264	2	1.8727	1.4459	1.3663	1.2568	0.8286	74
BabyCry	261	S	S	1.3243	1.0993	3.3784	2.4366	4.1486	2.8074	1.9189	1.9498	6.5676	2.3876	74
Yawn	262			1.7297	1.2529	1.2838	0.9144	1.2162	0.6253	1.8649	1.7464	2.0676	1.9538	74
Whistling	270	H	H	5.75	2.5161	1.3611	0.8608	1.3889	1.3061	1.2778	0.9527	1.4028	1.1587	72
FemScream2	276	F	F	1.2027	1.0066	7.9054	1.9874	5.0541	2.9185	3.7432	2.9005	5.8378	2.575	74
FemScream3	277	F	F	1.32	1.1759	8	1.7782	4.5	3.0034	3.9865	2.8405	5.2973	2.9411	75
ChildAbuse	278	neg	neg	1.2533	1.3058	6.28	2.729	7.1733	2.1013	5.12	3.3042	7.4133	2.3829	75
Attack1	279	neg	neg	1.1757	0.8968	7.9324	1.9885	7.8378	2.0742	5.8919	3.1474	6.8108	2.5732	74
Funeral	280		S	1.2432	0.6582	4.1757	2.6963	2.3919	2.0595	2.1081	1.8986	6.4459	2.8291	74
Attack2	285	*	*	1.1918	0.9952	8.1781	1.316	7.5616	2.1343	5.589	3.1616	6.726	2.6101	73
Victim	286	F *	F	1.3014	1.1982	8.411	1.0386	6.1918	2.9043	5.2192	3.1013	7.3288	2.3514	73
CardiacArrest	287			1.2192	0.7861	4.5068	3.0918	2.5068	2.4951	2.0548	2.1978	3.8082	3.2044	73
Fight	290	AF *	AF	1.1096	0.3145	7.7945	1.6326	8.3151	1.0913	4.9726	3.0229	6.1096	2.6852	73
Prowler	291	F	F	1.3288	1.0548	6.7671	2.4297	3.2192	2.4166	2.7808	2.2314	2.726	2.1875	73
MaleScream	292	neg	F	1.1127	0.4644	7.6901	1.8015	5.6901	2.7129	4.1408	2.9145	6.5775	2.2657	71
Crowd1	310		F	2.7123	2.5899	5.6986	3.2002	2.6712	2.3396	1.9041	1.556	3.2877	2.5792	73
Crowd2	311		*	2.1867	2.0969	3.0667	2.6627	1.8	1.5067	1.64	1.4854	1.5067	1.3087	75
Office2	319			1.56	1.1653	1.6	1.3049	1.9733	1.724	1.6667	1.6549	1.3867	0.8837	75
Office1	320			1.7083	1.5239	1.7083	1.5053	1.9028	1.7047	1.5417	1.342	1.7083	1.368	72
TypeWriter	322			1.8904	1.6546	1.6849	1.5888	2.1233	2.0679	1.4521	1.2138	1.4932	1.1681	73
Traffic	325			1.7808	1.6604	2.4795	2.0757	2.0137	1.6955	1.4795	1.2814	1.4521	1.0546	73
Applause	351	H	H	6.7973	2.158	1.2027	0.6821	1.1892	0.6959	1.2027	0.9213	1.2297	0.786	74
SportsCrowd	352	H	H	6.8108	2.6311	1.3514	0.9853	1.3784	1.1551	1.2973	1.1435	1.1892	0.7153	74
Baseball	353	H	H	7.5135	2.1018	1.2297	0.9443	1.1892	0.5656	1.3108	1.097	1.2297	0.7128	74
Writing	358			1.473	1.1253	1.8514	1.6691	2.3784	2.1113	1.8243	1.9328	1.2973	0.8231	74
RollerCoaster	360	HF	HF	4.9722	2.8481	5.3194	2.5499	1.6667	1.2892	1.6111	1.4781	1.7222	1.5126	72
Restaurant	361		H	3.8133	2.6133	1.4933	1.1897	1.44	1.1653	1.4	1.2302	1.32	0.7912	75
Football	362			3.5205	2.5772	2.2877	1.9256	2.5068	2.161	1.589	1.5351	1.3151	1.0121	73
CourtSport	370		H	3.3333	2.708	1.2667	0.7769	1.2667	0.8436	1.0933	0.3739	1.1867	0.8002	75
JackHammer	380			1.2297	0.6733	3.2838	2.5294	3.3243	2.4889	2.0541	1.8572	1.5946	1.2597	74

Table 1: All Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Jet	400			2.3467	2.0697	2.9467	2.1865	1.7733	1.4757	1.3467	1.1797	1.4667	1.1311	75
Applause	401	H	H	5.8378	2.4719	1.2568	0.6207	1.1622	0.4388	1.2162	0.7811	1.2297	0.6733	74
Helicopter1	403		F	1.72	1.5295	3.7467	2.4555	2.44	2.1948	1.6267	1.4498	1.7333	1.455	75
Helicopter2	410		F	1.589	1.2565	3.4521	2.3924	1.7123	1.467	1.6986	1.808	1.6438	1.3475	73
Countdown	415		HF	3.7867	2.7524	3.4667	2.5005	1.6133	1.4968	1.2667	1.0696	1.4133	0.9599	75
CarHorns	420		A	1.4795	1.2373	3.1644	2.4945	4.9589	2.9128	1.6438	1.6105	1.5342	1.3651	73
TireSkids	422	*	F	1.2297	0.7318	5.9595	2.8594	3.7027	2.9036	2.3108	2.2991	3.0946	2.5002	74
Injury	423		*	1.625	1.5784	3.5278	2.732	4.75	2.8322	2.9028	2.4561	3.2083	2.5004	72
CarWreck	424		F	1.0811	0.3971	7.1486	2.2736	4.0541	2.8902	2.7568	2.5255	5.5405	3.0123	74
Train	425			1.8784	1.6957	3.0405	2.3782	2.2027	2.1389	1.5135	1.274	1.7162	1.6092	74
Wind	500		F	1.3919	0.9038	5.1081	2.7576	2.2297	1.9412	1.7027	1.3822	2.473	2.0422	74
PlaneCrash	501			1.3194	0.8693	5.3056	2.7764	3.1389	2.536	2.125	1.8685	4.3056	2.8809	72
EngineFailure	502			1.2361	0.8959	2.8611	2.1382	4.5278	2.8382	1.8056	1.8738	3.3194	2.5719	72
BikeWreck	600	*	F	1.2297	0.8366	7.5946	1.9155	3.7703	2.7575	3.6757	2.9568	6.1081	2.945	74
ColonialMusic	601	H	H	5.7808	2.6047	1.726	1.5658	1.3425	0.7856	1.2603	0.9432	1.4247	1.0263	73
Thunderstorm	602			2	1.8132	3.7432	2.5964	2.8784	2.4991	1.527	1.4639	2.7838	2.2892	74
CboyIndians	610			3.9589	2.8599	3.2055	2.5547	2.4521	2.1411	1.8356	1.856	1.8082	1.6804	73
MayDay	625		F	1.1918	0.5691	6.9452	2.4715	3.4247	2.4547	2.0274	1.9219	5.0274	2.9626	73
Bombs	626		F	1.3467	1.0066	5.8667	2.7721	3.7733	3.0517	2.4267	2.279	2.96	2.6069	75
HowlingRain	627	F	F	1.4	1.0398	5.56	2.5322	2.1067	1.8349	1.9333	1.8257	2.1867	1.865	75
Bomb	698		F	1.4366	1.4316	6.4648	2.8124	4.5915	2.8615	2.5915	2.3335	3.662	2.7977	71
Raging Fire	699		F	1.3514	1.0525	6.0541	2.8231	3.9189	2.8029	2.6216	2.414	3.6486	2.6865	74
ToiletFlush	700	D	D	1.6164	1.6041	1.274	0.8209	1.274	0.8702	4.9726	2.7837	1.1644	0.4718	73
Fan	701			2.1892	1.9066	2.0405	1.7707	1.5541	1.3961	1.1892	0.6341	1.2297	0.6527	74
Belch	702	D	D	2	1.8181	1.6438	1.466	1.5205	1.2146	7.3836	1.9122	1.3425	0.8695	73
TouchTone	704			1.5135	1.3059	1.2838	0.9725	1.5	1.2954	1.3108	1.1812	1.3378	1.1501	74
RotaryDial	705			2.3056	1.9833	2	1.8386	1.7083	1.5784	1.375	1.2496	1.4167	1.0714	72
War	706		AF	1.4	1.1855	4.12	2.6961	3.8133	2.5874	2.0933	1.8612	2.3467	2.1276	75
ClockTick	708			1.4521	1.1431	2.5342	2.1219	2.1507	2.0728	1.6849	1.3424	1.8493	1.5062	73
AlarmClock	709			1.5467	1.2659	3.2133	2.6268	3.4667	2.9925	2.1333	2.2441	2.4133	2.2547	75
Cuckoo	710			2.5616	2.1794	2.0959	1.7963	2.4795	2.3869	1.5616	1.3943	1.411	0.9977	73

Table 1: All Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Sirens	711	F *	F	1.3514	0.9571	6.2432	2.5579	2.7838	2.5172	1.7703	1.7005	3.6757	2.7304	74
Buzzer	712	F *	F	1.3333	0.8222	6.8333	2.0895	4.6806	2.8025	2.125	2.1226	2.2361	2.0314	72
BrushTeeth	720		D	1.8649	1.6413	1.5135	1.4919	1.6216	1.5323	4.2703	2.854	1.1892	0.5893	74
Beer	721			3.2267	2.5972	1.4133	1.2313	1.2933	0.8818	2.1067	2.0106	1.2	0.6778	75
Walking	722		AF *	1.4667	1.1069	3.2267	2.6024	3.1467	2.6288	1.28	0.7809	1.7733	1.665	75
Radio	723			1.8356	1.6331	2.2055	2.0545	1.7671	1.6031	1.4795	1.2814	1.6164	1.2652	73
Chewing	724		D	2	1.8432	1.8919	1.7405	1.7162	1.5127	4.6081	2.9647	1.2838	0.7679	74
SodaFizz	725			2.1486	2.0982	1.527	1.537	1.3243	1.0483	3.0676	2.4569	1.4865	1.274	74
Cork	726			2.0278	1.7918	1.5278	1.2444	1.3889	1.0421	2.2222	2.0639	1.3889	1.0421	72
GlassBreak	730		AF	1.2603	0.7076	4.3288	2.7591	5.4658	2.8871	2.0685	1.7899	2.8767	2.2788	73
Natives	802	H	H	5.6301	2.5359	1.5753	1.2574	1.3425	0.7677	1.2877	0.7356	1.9589	1.5495	73
Beethoven	810	H	H	6.6944	2.2682	1.375	0.926	1.1944	0.5474	1.2639	1.048	1.4583	1.0338	72
Bach	811	H	H	6.1081	2.3441	1.3784	0.9751	1.2973	0.8716	1.1757	0.5819	1.6486	1.276	74
Choir	812		HS	3.8493	2.4018	2.411	2.3204	1.3973	0.939	1.3562	1.1349	4.2877	2.8308	73
RockNRoll	815	H	H	5.9067	2.7956	1.5867	1.3162	2.52	2.0359	1.2267	1.0472	1.1333	0.4746	75
Guitar	816		H *	4.2533	2.4774	1.6267	1.4024	1.5467	1.1659	1.28	0.9524	2.7467	2.0408	75
FunkMusic	820	H	H	7.0405	2.0302	1.2432	0.8571	1.1892	0.6341	1.2703	1.0765	1.1486	0.4877	74
BagPipes	826		S	2.7867	2.3325	1.8933	1.6569	1.3867	1.0253	1.36	1.0351	4.84	3.1582	75

Table 2: Female Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
TomCat	100			2.0526	2.0788	3.3947	2.3657	3.7895	2.5272	3.1842	2.7691	4.1579	2.584	38
PuppyCry	105		S	1.5	1.1832	4.5278	2.8932	2.8611	2.3318	2.3889	2.2713	6.4722	2.524	36
DogGrowl	106	AF	AF	1.2368	0.7141	6.7632	2.7552	6.8947	2.5763	3.7632	2.7454	2.2105	1.8033	38
Carousel	109	H	H	7.75	1.4417	2.0556	1.6894	1.1944	0.5767	1.5556	1.4431	1.1944	0.6242	36
BabyLaugh	110	H	H	8.0789	1.6172	1.3421	1.0469	1.2632	1.0315	1.7105	1.8731	1.1579	0.4946	38
MusicBox	111		HS	4.2162	2.7702	1.9459	1.9285	2.0541	1.6988	1.6757	1.9156	3.8919	2.633	37
KidsInPark	112	H	H	7.6216	1.6219	1.4054	1.0919	1.2432	1.1644	1.3514	1.1836	1.2703	0.9021	37
Cows	113			2.1579	1.8676	2.5263	2.0891	2.8421	2.2484	2.9211	2.3867	1.9474	1.7234	38
Bees	115		F	1.3947	1.079	5.7105	2.7204	3.4737	2.512	3.3158	2.4285	1.7105	1.2282	38
Wasp	116		AFD	1.3947	1.0277	4.1842	2.7691	3.6053	2.6153	3.8684	3.006	1.4737	1.1086	38
Rooster	120			2.8378	2.128	2.5405	2.2924	2.2703	2.0903	1.6757	1.5285	1.4324	1.119	37
Pig	130		AFD	1.5526	1.3891	5.2895	2.7598	5.1842	2.6494	4.8947	2.9936	2.5789	2.2255	38
Chickens	132			2.3158	1.876	1.5526	1.0053	1.8158	1.4861	2.2105	2.3034	1.3421	0.938	38
Bear	133		F	1.6216	1.255	6.1081	2.7262	4.6486	2.5843	3.0811	2.3615	1.9189	1.5524	37
Cardinal	151	H	H	7.1081	1.9117	1.3243	1.2705	1.1622	0.6015	1.2703	1.326	1.1892	0.4618	37
Tropical	152	H	H	5.8947	2.4361	2.1842	2.129	1.6579	1.4937	1.5789	1.518	1.4211	1.0813	38
CountryNight	171			3.1842	2.3233	2.4737	2.1275	1.6316	1.0761	2.5789	2.1262	1.5	1.0067	38
EroticCouple	200	HD	HD	5.9722	3.0471	1.6389	1.6588	1.6111	1.3995	5.6111	2.8211	1.6389	1.7913	36
EroticFem1	201	HD	HD	6.0811	2.9	1.7297	1.774	1.3514	0.978	5	3.0092	1.2432	0.8946	37
EroticFem2	202	HD	HD	6.0263	2.9361	1.7368	1.7962	1.3158	0.6619	5.8684	2.9789	1.2368	0.9982	38
EroticFem3	205	HD *	HD	4.7895	2.8204	1.6579	1.4937	1.2105	0.4741	4.6579	2.8119	1.8158	1.4492	38
Shower	206	H	H	5.1892	2.6017	1.3243	0.8836	1.1622	0.6877	1.6757	1.5466	1.1892	0.7393	37
EroticMale1	210		HD	4.2432	2.9945	1.8378	1.7562	1.2162	0.7124	5.2162	2.9734	1.3243	1.0555	37
EroticCouple2	215	HD	HD	6	3.0613	1.5556	1.5013	1.8611	1.8846	5.4444	2.9899	1.2222	0.7216	36
EroticCouple3	216	HD	HD	6.2105	2.8204	2.1842	2.2161	1.6053	1.717	5.4211	2.7176	1.4211	1.1539	38
BoyLaugh	220	H	H	8.2162	1.601	1.3784	1.255	1.1622	0.5534	1.5405	1.4831	1.1351	0.4191	37
MaleLaugh	221	H	H	7.2632	2.1646	1.9474	1.8151	1.3684	1.3441	1.7368	1.7193	1.2895	1.3337	38
ClapGame	225	H	H	5.8378	2.0346	1.4595	1.2822	1.3784	1.255	1.4595	1.2155	1.4865	1.2828	37
Laughing	226	H	H	7.6667	1.7889	1.7222	1.7339	1.5833	1.8107	1.6389	1.624	1.5556	1.5013	36
Giggling	230	H	H	7.3056	1.7699	1.3611	0.9305	1.1667	0.5071	1.6389	1.8229	1.4167	1.1802	36
NoseBlow	251	D	D	1.2632	0.9208	1.2632	0.8601	1.3421	1.1918	6	2.9592	2.0263	1.9931	38

Table 2: Female Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
MaleSnore	252	D	D	1.4737	1.084	1.6579	1.632	1.9211	1.8066	5.0789	2.8416	1.3158	0.8417	38
VideoGame	254		H	4.1842	2.3579	1.9211	1.6338	2.3158	2.0809	1.7632	1.8371	1.2895	0.8977	38
BabyCry	261	S	S	1.4054	1.4232	3.8108	2.3433	4.4054	2.8427	1.973	2.0614	7.027	2.0614	37
Yawn	262			1.9459	1.4709	1.3514	1.1836	1.1622	0.6015	1.8649	1.9602	1.4865	1.1211	37
Whistling	270	H	H	6.2703	2.2192	1.2703	0.7691	1.1892	0.7393	1.2162	1.0037	1.2703	0.8045	37
FemScream2	276	F	F	1.3158	1.3775	8.1316	1.7732	5.3158	2.9048	4.2368	2.8799	6.2895	2.5352	38
FemScream3	277	F	F	1.4737	1.5551	8.3158	1.4906	4.7838	2.8784	4.3514	2.946	5.5676	2.7843	38
ChildAbuse	278	neg	ASF	1.2368	1.3035	7.1842	2.1035	7.2895	1.8293	5.5789	3.2352	7.8947	2.0768	38
Attack1	279	neg	F	1.2895	1.2282	8.7895	0.528	8.2895	1.558	6.8421	2.5735	7.4211	1.8546	38
Funeral	280	S	S	1.2632	0.6851	3.9737	2.7459	2.2895	1.9715	2.3158	2.0678	6.8421	2.422	38
Attack2	285	F *	F *	1.3056	1.3695	8.6389	0.7232	7.7222	2.1329	6.25	2.9216	7.2778	2.1194	36
Victim	286	F *	F	1.2703	1.326	8.7297	0.6078	6.4324	2.863	5.5405	2.9962	7.4865	2.4109	37
CardiacArrest	287		SF	1.2973	1.0505	5.0811	2.8808	2.4324	2.2053	2.1622	2.3275	4.1622	3.0958	37
Fight	290	AF *	AF	1.0811	0.2767	8.1351	1.3977	8.5405	1.0164	5.4865	3.0788	6.5676	2.5226	37
Prowler	291	F	F	1.3243	1.0555	7.0541	2.1596	3.3514	2.3359	2.8378	2.154	2.7838	1.9023	37
MaleScream	292		F	1.1081	0.5155	7.8108	1.7925	6.027	2.7536	3.9189	3.0219	6.4865	2.2438	37
Crowd1	310		F	2.9189	2.6602	6.0541	3.1353	3.027	2.5548	2.0811	1.6895	3.5946	2.7634	37
Crowd2	311		*	2.0263	1.9381	3.3421	2.7829	1.9737	1.7932	1.6316	1.532	1.5526	1.5013	38
Office2	319			1.7632	1.4034	1.6842	1.4724	1.7105	1.3932	1.7105	1.6259	1.3421	0.7453	38
Office1	320			2	1.7238	1.9167	1.73	2.0278	1.7806	1.75	1.6966	1.7222	1.344	36
TypeWriter	322			2.0811	1.9347	1.7297	1.644	2.1892	2.1582	1.6216	1.4786	1.5676	1.1676	37
Traffic	325			1.9444	1.788	2.4167	1.9328	2.0833	2.0053	1.4722	1.424	1.2778	0.8819	36
Applause	351	H	H	7.0263	1.9931	1.2632	0.8909	1.1842	0.8336	1.3158	1.2543	1.2632	0.9497	38
SportsCrowd	352	H	H	7.1579	2.3656	1.4474	1.1554	1.3684	0.9704	1.4474	1.5369	1.2895	0.956	38
Baseball	353	H	H	8.0811	1.4791	1.3514	1.274	1.2162	0.7124	1.4595	1.4643	1.2703	0.8045	37
Writing	358			1.5135	1.2161	1.7027	1.4882	2.4595	2.022	1.7838	1.7019	1.2973	0.9962	37
RollerCoaster	360	HF	HF	4.8919	2.9794	5.5676	2.3634	1.4595	0.9602	1.4865	1.4457	1.5676	1.4633	37
Restaurant	361	H	H	4.7895	2.244	1.5789	1.4072	1.4474	1.267	1.5526	1.6224	1.4474	1.0053	38
Football	362			3.1622	2.23	2.5405	2.0762	2.6216	2.1259	1.8919	2.0109	1.5135	1.3462	37
CourtSport	370		H	3.2632	2.7082	1.2105	0.622	1.2632	0.76	1.0789	0.3588	1.1316	0.4748	38
JackHammer	380			1.2432	0.7229	3.3784	2.7116	3.4865	2.5779	2.2973	1.8983	1.7027	1.4311	37

Table 2: Female Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Jet	400			2.3684	1.9922	3.5526	2.4461	2.0526	1.7077	1.5263	1.5894	1.6579	1.4755	38
Applause	401	H	H	6.5	2.1529	1.2368	0.5897	1.1053	0.3883	1.2895	1.0374	1.1842	0.5626	38
Helicopter1	403		F	1.7368	1.6055	4.0263	2.4104	2.2368	2.0591	1.5526	1.5013	1.5263	0.9512	38
Helicopter2	410		F	1.5946	1.2351	3.8649	2.4286	1.7838	1.4932	1.4595	1.4258	1.8649	1.7023	37
Countdown	415		HF	3.5	2.6175	3.6842	2.4173	1.5789	1.4262	1.3947	1.4619	1.4211	0.9762	38
CarHorns	420		AF	1.7297	1.5925	3.4595	2.6936	4.8378	2.9769	1.6757	1.6508	1.5405	1.4643	37
TireSkids	422	F *	F	1.1892	0.5184	6.7568	2.5321	4.1892	2.9234	2.7568	2.6605	3.7568	2.543	37
Injury	423		A *	1.4865	1.3462	3.5405	2.5232	5	2.6977	3.1622	2.3748	2.6757	1.9868	37
CarWreck	424		F	1.1053	0.5088	7.9474	1.7077	4.2895	2.8466	3.2632	2.6781	6.5526	2.617	38
Train	425		F	1.8378	1.5901	3.7027	2.4252	2.2973	2.3554	1.6757	1.5102	2.027	2.0205	37
Wind	500	F	F	1.5263	1.0329	5.5526	2.7282	2.6053	2.1503	1.8421	1.4801	2.5526	1.927	38
PlaneCrash	501			1.25	0.6918	5.6944	2.4936	3.4722	2.6671	2.1667	1.7321	4.5278	2.7722	36
EngineFailure	502			1.3333	1.1952	3.1111	2.0533	4.4444	2.443	1.9444	2.0832	3.3889	2.3333	36
BikeWreck	600	F *	F	1.2368	0.6339	8.1316	1.6303	4.1316	2.8109	3.7632	3.0618	6.4737	2.9384	38
ColonialMusic	601	H	H	6.3333	2.4378	1.8056	1.7699	1.25	0.6036	1.2778	1.0313	1.5278	1.2302	36
Thunderstorm	602		F	2.4211	2.2855	4.2632	2.5857	2.9211	2.3867	1.4737	1.4282	2.6579	2.1217	38
CboyIndians	610		H	4.6486	2.8109	2.973	2.5657	1.8919	1.8376	1.8649	2.0023	1.4595	1.2382	37
MayDay	625		F	1.1351	0.4191	7.4595	2.1421	3.5676	2.5115	2.2432	2.1266	5.4595	2.6624	37
Bombs	626		F	1.2632	0.828	6.6579	2.4745	4.3158	3.1202	2.7895	2.3955	3.3158	2.7618	38
HowlingRain	627	F	F	1.5526	1.2881	5.7632	2.3067	2.1316	1.7112	1.9211	1.851	2.2105	2.0021	38
Bomb	698		F	1.4324	1.4821	6.7838	2.4282	4.9189	2.8904	3.0541	2.4938	3.973	2.8818	37
Raging Fire	699	F	F	1.4211	1.1998	6.6842	2.3608	4.2105	3.0239	2.9474	2.4709	4.2632	2.8158	38
ToiletFlush	700	D	D	1.4324	1.0682	1.3514	1.006	1.3784	1.139	5.4054	2.8329	1.1081	0.3933	37
Fan	701			1.9189	1.4216	2.027	1.8026	1.5676	1.3651	1.2162	0.6723	1.2973	0.8119	37
Belch	702	D	D	2.1667	1.6987	1.7778	1.6581	1.4167	0.9373	7.4722	1.8744	1.2778	0.8146	36
TouchTone	704			1.8378	1.6417	1.3514	1.1836	1.4595	1.2604	1.3784	1.4597	1.2703	0.8708	37
RotaryDial	705			2.6667	2.0142	2.3056	2.0815	1.75	1.6279	1.5	1.5584	1.3611	0.8669	36
War	706		AF	1.3158	0.8417	4.4474	2.6273	4	2.5994	2.3421	1.9351	2.5789	2.2497	38
ClockTick	708			1.6667	1.5119	2.6111	2.1683	2.3333	2.0702	1.8056	1.4106	1.9167	1.6102	36
AlarmClock	709			1.7368	1.6055	3.7105	2.7891	3.4474	3.1253	2.2895	2.5775	2.1842	2.0646	38
Cuckoo	710			2.9474	2.4156	2.2368	2.0851	2.2895	2.2769	1.6579	1.6485	1.3421	0.7081	38

Table 2: Female Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Sirens	711	F *	F	1.4865	1.1931	6.9189	2.3019	2.8649	2.6369	1.8649	1.8583	4.5135	2.755	37
Buzzer	712	AF *	F	1.2973	0.7769	7.1081	2.0654	5.1081	2.5904	2.2703	2.3172	2.3243	1.9156	37
BrushTeeth	720		D	1.9474	1.5236	1.3947	1.4803	1.2895	1.0374	4.1579	2.8239	1.0789	0.3588	38
Beer	721			3.1579	2.3541	1.5	1.3901	1.3947	1.128	2.3158	2.2434	1.2632	0.8601	38
Walking	722		AF *	1.6053	1.2201	3.2368	2.562	2.9211	2.5403	1.3158	0.8089	1.6053	1.4433	38
Radio	723			2.0811	1.9913	2.0811	2.0464	1.6216	1.3198	1.4054	1.117	1.5676	1.1676	37
Chewing	724		D	2.2703	1.9671	1.9459	1.7312	1.5946	1.4617	4.3514	3.0751	1.2973	0.9087	37
SodaFizz	725		D	2.2432	2.1003	1.6757	1.9011	1.3514	1.3169	3.6757	2.6358	1.5946	1.5716	37
Cork	726			2	1.7566	1.5278	1.4038	1.4167	1.1307	2.0833	1.8264	1.3889	1.1027	36
GlassBreak	730		AF	1.2432	0.7603	4.5405	2.7039	5.6757	2.7694	2.6486	2.0978	2.973	2.0342	37
Natives	802	H	H	5.3889	2.4874	1.6667	1.3522	1.4444	0.9394	1.3889	0.8711	2.1389	1.8385	36
Beethoven	810	H	H	7.1081	1.8527	1.4865	1.096	1.2703	0.6519	1.3784	1.4014	1.4595	0.9308	37
Bach	811	H	H	6.8158	2.1163	1.3947	1.0011	1.2105	0.8433	1.2105	0.7036	1.4211	1.106	38
Choir	812		HS	4.3333	2.4957	2.3611	2.1267	1.4444	1.0541	1.5	1.5024	3.9722	2.7306	36
RockNRoll	815	H	H	6.0263	2.8235	1.6316	1.4963	2.2632	1.7349	1.2368	1.3035	1.0789	0.3588	38
Guitar	816		H *	4.1316	2.4292	1.7632	1.6511	1.5526	1.3294	1.3684	1.2611	2.8947	1.8858	38
FunkMusic	820	H	H	7.7297	1.3468	1.2973	1.1021	1.2162	0.7504	1.4324	1.4633	1.0811	0.2767	37
BagPipes	826		S	2.7105	2.2887	1.8158	1.5397	1.2632	0.6851	1.3947	1.2201	5.2368	3.053	38

Table 3: Male Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
TomCat	100			1.9167	1.8727	3.4167	2.4187	3.9167	2.5341	3.3056	2.7961	4.2778	2.5924	36
PuppyCry	105		S	1.3243	1.0555	4.2432	3.0222	2.6757	2.3811	2.2162	2.2869	6.2162	2.8493	37
DogGrowl	106	AF	AF	1.25	0.7319	6.6667	2.798	6.7778	2.5979	3.5833	2.6659	2.2778	1.8301	36
Carousel	109	H	H	7.25	2.2725	1.9722	1.7482	1.1389	0.6393	1.4722	1.483	1.1389	0.6825	36
BabyLaugh	110	H	H	8.0278	1.6473	1.3611	1.0731	1.2778	1.0586	1.75	1.918	1.1667	0.5071	36
MusicBox	111		HS	3.9143	2.6276	1.9714	1.9924	2.0286	1.7571	1.5714	1.8987	4	2.6789	35
KidsInPark	112	H	H	7.3784	2.0324	1.3784	1.1143	1.2162	1.1817	1.3243	1.2031	1.2432	0.9251	37
Cows	113			2.1111	1.8482	2.5833	2.1297	2.8889	2.2901	2.9444	2.4488	1.9722	1.7645	36
Bees	115		F	1.4167	1.1052	5.75	2.7813	3.5	2.5355	3.4167	2.4539	1.6667	1.1952	36
Wasp	116		AFD	1.3784	1.0369	4.1351	2.7905	3.4865	2.5454	3.7297	2.9216	1.4595	1.1204	37
Rooster	120			2.6216	1.991	2.5135	2.3169	2.2432	2.1135	1.6486	1.5495	1.4054	1.1416	37
Pig	130		AFD	1.5405	1.4062	5.2973	2.7975	5.1622	2.6824	4.9189	3.0311	2.5676	2.2551	37
Chickens	132			2.2973	1.8983	1.5405	1.0164	1.8378	1.5003	2.2162	2.3349	1.3243	0.9444	37
Bear	133		F	1.5676	1.2811	5.8649	2.8593	4.4054	2.5869	2.8919	2.3188	1.8919	1.5773	37
Cardinal	151	H	H	6.8	2.2466	1.3143	1.3234	1.1429	0.6482	1.2571	1.3793	1.1429	0.4937	35
Tropical	152	H	H	5.8919	2.4696	2.1892	2.1582	1.6486	1.5132	1.5946	1.5359	1.4324	1.0939	37
CountryNight	171			3.1622	2.3513	2.3514	2.0168	1.5676	1.0149	2.4865	2.0766	1.5135	1.0171	37
EroticCouple	200	HD	HD	5.5946	3.2784	1.5676	1.6757	1.5405	1.4258	5.3784	3.04	1.5676	1.8034	37
EroticFem1	201	HD	HD	5.8378	3.0232	1.6757	1.7959	1.3243	1.0015	4.9459	3.0817	1.2162	0.917	37
EroticFem2	202	HD	HD	6.0833	2.8523	1.7778	1.8379	1.3333	0.6761	5.8056	3.0125	1.25	1.0247	36
EroticFem3	205	*	HD	4.7297	2.8348	1.6757	1.5102	1.1892	0.4618	4.6757	2.8485	1.8378	1.4628	37
Shower	206	H	H	5.1351	2.6891	1.2703	0.9021	1.1351	0.7134	1.6486	1.5673	1.1081	0.6986	37
EroticMale1	210		HD	4.0833	2.9605	1.8333	1.7968	1.1944	0.7491	4.9444	3.0608	1.3056	1.0907	36
EroticCouple2	215	HD	HD	5.6486	3.3101	1.4865	1.5206	1.5676	1.4633	5.2432	3.1571	1.1622	0.7643	37
EroticCouple3	216	HD	HD	6.1351	2.8202	2.2162	2.2377	1.6216	1.7377	5.4324	2.7542	1.4324	1.1676	37
BoyLaugh	220	H	H	7.9444	2.1104	1.3611	1.2907	1.1389	0.5929	1.5278	1.521	1.1111	0.4646	36
MaleLaugh	221	H	H	7.3243	2.1609	1.8919	1.8071	1.3514	1.3584	1.7027	1.7299	1.2432	1.3209	37
ClapGame	225	H	H	5.6757	2.2491	1.4054	1.3008	1.3243	1.2705	1.4054	1.2351	1.4595	1.3037	37
Laughing	226	H	H	7.2222	2.5084	1.6667	1.7728	1.5278	1.8437	1.5833	1.6626	1.5	1.5399	36
Giggling	230	H	H	6.9714	2.37	1.2571	0.95	1.0857	0.5621	1.5429	1.8684	1.3714	1.2387	35
NoseBlow	251	D	D	1.2778	0.9445	1.25	0.8742	1.3333	1.2189	5.8333	2.952	2.0833	2.0336	36

Table 3: Male Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
MaleSnore	252	D	D	1.5	1.1084	1.6944	1.6702	1.9444	1.8508	5.0556	2.7974	1.3056	0.8559	36
VideoGame	254		H	4.2222	2.3435	1.8889	1.6695	2.3056	2.1357	1.6944	1.8019	1.3056	0.9202	36
BabyCry	261	S	S	1.3784	1.4405	3.6757	2.4159	4.2162	2.8977	1.8108	1.9697	6.8919	2.3426	37
Yawn	262			1.9189	1.4977	1.3243	1.2031	1.1351	0.6308	1.8378	1.9792	1.4595	1.1449	37
Whistling	270	H	H	5.9143	2.4055	1.2571	0.8168	1.1714	0.7854	1.2	1.0516	1.2286	0.8432	35
FemScream2	276	F	F	1.1111	0.5225	8.0833	1.8107	5.3056	2.984	3.9722	2.7201	6.1944	2.5615	36
FemScream3	277	F	F	1.4865	1.5745	8.2973	1.5067	4.5405	2.8925	4.1622	2.9955	5.4324	2.9301	37
ChildAbuse	278	neg	ASF	1.2432	1.3209	7.1351	2.1103	7.2432	1.8319	5.4865	3.2285	7.8649	2.0971	37
Attack1	279	neg	F	1.3056	1.2608	8.7778	0.5404	8.25	1.5924	6.75	2.6118	7.3611	1.8846	36
Funeral	280	S	S	1.25	0.6918	3.9722	2.7306	2.25	1.9621	2.2222	1.9583	6.8889	2.4817	36
Attack2	285	*	*	1.2432	1.3825	8.1622	2.1018	7.2703	2.735	5.8378	3.1755	6.8378	2.6511	37
Victim	286	*	F	1.25	1.3601	8.5	1.5766	6.1111	3.0216	5.25	3.1018	7.25	2.7295	36
CardiacArrest	287		SF	1.2778	1.0853	4.75	2.9118	2.1389	2.0305	1.7778	1.8839	3.9167	3.1018	36
Fight	290	*	AF	1.0556	0.3333	7.8611	1.9443	8.2778	1.7503	5.1667	3.1578	6.3333	2.7464	36
Prowler	291	F	F	1.3056	1.0907	6.7778	2.4508	3.1667	2.1974	2.75	2.1827	2.6111	1.9314	36
MaleScream	292		F	1.0882	0.5704	7.4706	2.2595	5.8235	3.0198	3.6176	3.0253	6.0882	2.4786	34
Crowd1	310		F	2.9444	2.7039	5.7778	3.296	2.9722	2.613	2.0278	1.7318	3.3333	2.7464	36
Crowd2	311		F *	1.8919	1.7761	3.4054	2.7934	1.8919	1.7446	1.5946	1.5359	1.5405	1.5201	37
Office2	319			1.7297	1.4073	1.5946	1.3836	1.5676	1.0939	1.6216	1.5519	1.3243	0.7474	37
Office1	320			1.9444	1.7719	1.8056	1.7699	1.9167	1.8264	1.6389	1.7263	1.6389	1.397	36
TypeWriter	322			2.0833	1.9766	1.6944	1.6873	2.0278	2.1711	1.4167	1.2956	1.5	1.1832	36
Traffic	325			1.7838	1.7816	2.2703	1.9811	1.8919	1.969	1.2432	1.0905	1.2162	0.917	37
Applause	351	H	H	7.0278	2.0352	1.2778	0.9137	1.1944	0.8559	1.3333	1.2873	1.2778	0.9743	36
SportsCrowd	352	H	H	7.0833	2.4068	1.4722	1.1829	1.3889	0.9936	1.4722	1.5764	1.3056	0.9804	36
Baseball	353	H	H	7.8378	1.9792	1.3243	1.2922	1.1892	0.7393	1.4324	1.4821	1.2432	0.8302	37
Writing	358			1.4324	1.2143	1.6757	1.5102	2.3514	2.0442	1.6486	1.6367	1.2703	1.0179	37
RollerCoaster	360	HF	HF	4.8	3.0176	5.6286	2.4981	1.4286	1.0084	1.4286	1.481	1.5714	1.5202	35
Restaurant	361	H	H	4.7297	2.2441	1.5946	1.4232	1.4324	1.2811	1.5676	1.6422	1.4054	0.9849	37
Football	362			3.0278	2.1972	2.5556	2.1172	2.4444	2.1172	1.7778	1.9873	1.4722	1.3833	36
CourtSport	370		H	3.2703	2.7452	1.1892	0.6163	1.2432	0.7603	1.027	0.1644	1.0811	0.3635	37
JackHammer	380			1.2162	0.7504	3.2973	2.7675	3.3514	2.627	2.0811	1.673	1.5946	1.4036	37

Table 3: Male Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Jet	400			2.3514	2.0168	3.5135	2.4678	2	1.6997	1.4865	1.592	1.6757	1.4917	37
Applause	401	H	H	6.4722	2.1579	1.1944	0.5248	1.0556	0.2323	1.2778	1.0586	1.1111	0.3187	36
Helicopter1	403		F	1.7568	1.6228	4	2.4381	2.2432	2.0871	1.5135	1.5023	1.5135	0.9609	37
Helicopter2	410		F	1.5833	1.2734	3.75	2.5341	1.6667	1.5119	1.3889	1.4398	1.8611	1.7428	36
Countdown	415		HF	3.4865	2.6523	3.7027	2.448	1.5946	1.4426	1.4054	1.4806	1.4054	0.9849	37
CarHorns	420		AF	1.7222	1.632	3.3333	2.6939	4.6111	3.0358	1.6389	1.6929	1.5278	1.5021	36
TireSkids	422	*	F	1.1622	0.5534	6.5676	2.7643	4.027	2.986	2.5135	2.479	3.5405	2.5121	37
Injury	423		*	1.4857	1.4011	3.3429	2.5198	4.5714	2.682	2.8571	2.3657	2.3714	1.8956	35
CarWreck	424		F	1.1111	0.5225	7.9167	1.7464	4.2778	2.8042	3.0556	2.5961	6.5278	2.6778	36
Train	425		F	1.7838	1.6182	3.5946	2.4995	2.1622	2.3394	1.5405	1.4258	1.973	2.0479	37
Wind	500	F	F	1.5278	1.0552	5.3889	2.7074	2.3889	1.9897	1.6667	1.2873	2.5278	1.9638	36
PlaneCrash	501			1.1944	0.7491	5.3333	2.8082	3.1111	2.6487	1.8056	1.4307	4.2778	2.9043	36
EngineFailure	502			1.2778	1.2331	2.8889	2.1082	4.25	2.6227	1.8611	2.1267	3.2222	2.4156	36
BikeWreck	600	*	F	1.25	0.6492	8.0833	1.6626	3.9722	2.7618	3.5278	2.9615	6.5556	2.843	36
ColonialMusic	601	H	H	5.9459	2.7883	1.7027	1.793	1.1351	0.5851	1.1892	1.0498	1.4595	1.2604	37
Thunderstorm	602		F	2.1944	2.0399	4.3056	2.6492	2.9167	2.4539	1.4722	1.4636	2.7222	2.1595	36
CboyIndians	610		H	4.5278	2.9324	2.9167	2.6444	1.8611	1.8846	1.8056	2.0399	1.4444	1.2749	36
MayDay	625		F	1.1111	0.4646	7.4444	2.2608	3.4167	2.4655	2.1389	2.1267	5.4167	2.7503	36
Bombs	626		F	1.2703	0.8383	6.6216	2.4983	4.2162	3.1014	2.6216	2.1903	3.1892	2.6857	37
HowlingRain	627	F	F	1.5676	1.3026	5.8108	2.3195	2.0811	1.7058	1.8919	1.8676	2.2162	2.0294	37
Bomb	698		F	1.4412	1.5607	6.6176	2.7636	4.5882	3.0163	2.9706	2.5523	4.1471	2.9453	34
Raging Fire	699	F	F	1.3333	1.069	6.6944	2.3521	4.1667	3.0659	2.8056	2.4357	4.1944	2.8165	36
ToiletFlush	700	D	D	1.4167	1.1052	1.2778	1.0032	1.2778	1.0853	5.3056	2.8866	1.0556	0.4102	36
Fan	701			1.8108	1.411	1.973	1.8331	1.5405	1.3863	1.1892	0.7007	1.2703	0.8383	37
Belch	702	D	D	2	1.7159	1.5405	1.4258	1.3243	0.9734	7.027	2.4998	1.2162	0.8542	37
TouchTone	704			1.7568	1.6567	1.2703	1.1702	1.4324	1.2811	1.3514	1.476	1.2162	0.8862	37
RotaryDial	705			2.5556	2.1037	1.9444	1.8662	1.5	1.4832	1.25	1.4015	1.3056	0.9202	36
War	706		AF	1.2973	0.8454	4.4865	2.6523	4.0811	2.5861	2.3514	1.961	2.6216	2.2651	37
ClockTick	708			1.5946	1.5359	2.4054	2.1789	2.2432	2.1003	1.6757	1.4348	1.7568	1.6056	37
AlarmClock	709			1.7568	1.6228	3.5676	2.6827	3.2973	3.0264	2.1081	2.3545	2.1081	2.0383	37
Cuckoo	710			3.1143	2.4467	2.2286	2.1016	2.0571	2.0428	1.6571	1.714	1.3714	0.7311	35

Table 3: Male Subjects

Sound Description	IADS No.	<u>Category</u>		<u>Happiness</u>		<u>Fear</u>		<u>Anger</u>		<u>Disgust</u>		<u>Sadness</u>		Number of Subjects
		1 sd	0.5 sd	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
Sirens	711	*	F	1.4324	1.2143	6.7027	2.5589	2.6757	2.5826	1.7027	1.7459	4.4054	2.8525	37
Buzzer	712	*	F	1.2286	0.8075	7	2.3887	4.8286	2.7277	1.8286	1.8863	2.2	1.8912	35
BrushTeeth	720		D	1.8889	1.4693	1.3889	1.5171	1.2778	1.0586	4.1111	2.8961	1.0278	0.1667	36
Beer	721			3.1081	2.3662	1.5135	1.4068	1.4054	1.1416	2.3514	2.2634	1.2703	0.8708	37
Walking	722		*	1.6216	1.2327	3.1892	2.5802	2.8108	2.4815	1.2703	0.7691	1.5676	1.4442	37
Radio	723			2.0556	2.0416	1.9444	1.9849	1.5278	1.298	1.3333	1.1212	1.5	1.1832	36
Chewing	724		D	2.1892	1.9977	1.8919	1.7604	1.5405	1.4831	4.1081	3.0531	1.2432	0.9251	37
SodaFizz	725		D	2.1351	2.1103	1.6486	1.918	1.3243	1.3345	3.6216	2.691	1.5676	1.5906	37
Cork	726			1.8333	1.7321	1.4444	1.4431	1.3333	1.1711	1.9167	1.8107	1.25	1.0522	36
GlassBreak	730		AF	1.2222	0.7968	4.3611	2.8097	5.4444	2.9027	2.5	2.0908	2.9167	2.0891	36
Natives	802	H	H	5.0541	2.7279	1.5676	1.3853	1.3243	0.9444	1.2973	0.9087	2.0541	1.87	37
Beethoven	810	H	H	6.8	2.2069	1.4857	1.1472	1.2571	0.7005	1.3714	1.4569	1.4571	0.9805	35
Bach	811	H	H	6.6944	2.1087	1.3889	1.022	1.2222	0.8656	1.2222	0.7216	1.4444	1.1325	36
Choir	812		HS	4.027	2.6086	2.2703	2.1557	1.3784	1.0891	1.4054	1.5177	3.7568	2.8422	37
RockNRoll	815	H	H	5.9459	2.8181	1.5405	1.4062	2.2432	1.7544	1.2432	1.3209	1.0811	0.3635	37
Guitar	816		HS *	4.1351	2.4626	1.7568	1.6734	1.5135	1.3254	1.3514	1.274	2.9459	1.8848	37
FunkMusic	820	H	H	7.4865	1.8352	1.2703	1.1217	1.1892	0.776	1.4054	1.4806	1.0541	0.3288	37
BagPipes	826		S	2.7568	2.3022	1.8378	1.5548	1.2703	0.6932	1.4054	1.2351	5.1351	3.0291	37

Table 4: Dimensions Predicting Categories

		Predicting Happiness		Predicting Fear		Predicting Anger		Predicting Disgust		Predicting Sadness	
		β	t	β	t	B	t	β	t	β	t
Negative Valence	Valence	0.937	4.212***	0.036	0.177	-0.655	-2.522*	-1.008	-3.544**	-0.860	-3.251**
	Arousal	0.876	3.602**	0.396	1.791	0.286	1.007	-0.329	-1.056	0.019	0.066
	Dominance	0.510	1.932	-0.439	-1.830	0.362	1.175	0.431	1.276	0.369	1.174
Positive Valence	Valence	0.816	6.917***	0.025	0.192	-0.516	-2.772*	-0.575	-3.006**	0.269	1.363
	Arousal	0.109	1.206	0.242	2.440*	0.381	2.669*	0.412	2.804*	-0.319	-2.106*
	Dominance	-0.76	-.737	-0.798	-7.060***	-0.21	-0.129	0.472	2.820*	-0.388	-2.251*

* $p < 0.05$

** $p < 0.005$

*** $p < 0.001$

Table 4. Regressions of emotional dimension ratings predicting happiness, fear, anger, disgust, and sadness, for negative and positive sounds. β -values, t-scores, and significance levels are shown for each emotional dimension with respect to each emotional category.

Table 5: Categories Predicting Dimensions

		Predicting Valence		Predicting Arousal		Predicting Dominance	
		β	t	B	T	β	t
Negative Valence	Happiness	0.361	3.268**	-0.46	-0.424	0.279	2.787*
	Fear	-0.415	-2.779*	0.847	5.729***	-0.873	-6.437***
	Anger	-0.069	-0.485	0.068	0.483	0.092	0.713
	Disgust	-0.056	-0.523	-0.126	-1.190	0.085	0.872
	Sadness	-0.046	-0.346	-0.164	-1.241	0.224	1.853
Positive Valence	Happiness	0.815	9.167***	0.740	6.989***	0.257	2.733*
	Fear	-0.073	-0.741	0.398	3.373***	-0.768	-7.338***
	Anger	0.016	0.162	0.214	1.847	0.236	2.294*
	Disgust	0.017	0.215	.0279	2.910**	0.074	0.865
	Sadness	0.065	0.794	-0.150	-1.532	-0.033	-0.384

* $p < 0.05$

** $p < 0.005$

*** $p < 0.001$

Table 5. Regressions of discrete emotional category ratings predicting valence, arousal, and dominance for negative and positive sounds. β -values, t-scores, and significance levels are shown for each emotional category with respect to each emotional dimension.