

## Electrophysiological normative responses to emotional, neutral, and cigarette-related images

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### Abstract

To create reproducible emotional probes, affective scientists rely on sets of standardized pictures that are normed using subjective ratings of valence and emotional arousal. Yet, to investigate psychophysiological emotional responses, it might be more appropriate to select pictures using normative neurophysiological responses rather than normative subjective ratings. Here, we provide electrophysiological normative responses for 323 emotional pictures (215 from the IAPS) covering a wide range of categories (erotica, romantic, appetizing foods, landscapes, people engaged in mundane activities, household objects, disgusting objects, accidents, sad people, violence, mutilations, and cigarette-related contents). Event-related potentials (ERPs) and subjective ratings of pleasure and emotional arousal were collected from 763 individuals (52% females, 41% white) aged between 18 and 65 (mean = 43). For each image, the mean amplitude of the late positive potential (LPP, an electrophysiological index of motivational relevance) and the mean subjective ratings of valence and arousal were calculated. We validated our procedure by showing that the subjective ratings of valence and arousal from this sample were highly correlated to the IAPS' published norms (Pearson  $r=.97$  for pleasure and  $r=.82$  for emotional arousal). LPP responses and subjective ratings of emotional arousal also were correlated (Pearson  $r = .61$ ), but some categories that participants reported being significantly more arousing than neutral (i.e., food, landscapes, and unpleasant objects) did not evoke LPPs significantly different from those evoked by neutral pictures. Researchers interested in probing the brain's affective systems can use these electrophysiological normative responses to create emotional probes that evoke reliable neuroaffective responses.

**Keywords:** IAPS, Pictures, Emotion, SAM, LPP, ERPs

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**Data availability statement.** The normative electrophysiological responses of the Late Positive Potential (LPP) reported in the present manuscript are openly accessible in the supplementary material as csv files (1) across the entire sample, (2) separate for males and females, and (3) separately for smoking status (smokers vs. non-smokers). Valence and arousal ratings for each image are also provided.

## 1. INTRODUCTION

Measuring neurobehavioral responses to affectively charged pictures is one of the most frequently used experimental paradigms in affective neuroscience (Bradley & Lang, 2018). Experimental control and reproducibility across laboratories are ensured by the availability of picture sets that include hundreds of standardized pictures. Some of these picture sets cover a wide array of emotional contents (e.g., the International Affective Picture System [IAPS], Lang et al., 2008; the Nencki Affective Picture System [NAPS], Marchewka et al., 2014; the EmoPics, Wessa et al., 2010), while others focus on specific contents such as food (e.g., the open library of affective foods [OLAF], Miccoli et al., 2016); Food-pics, Blechert et al., 2014), drugs (SmoCuDA, Manoliu et al., 2021; Macatee et al., 2021; Methamphetamine and Opioid Cue Database [MOCD], Ekhtiari et al., 2020), trauma-related pictures (Trauma-related Affective Picture Set Muenster [TRAPS-M], Neumeister et al., 2016), or panic-related pictures (Panic-related Picture Set Muenster [PAPS-M], Feldker et al. 2017), to name a few.

The key feature of these sets is that they provide normative ratings of valence and arousal for each picture. Considering emotions as the result of the activation of fundamental motivational circuits that have evolved to protect and sustain life (Lang & Bradley, 2010), valence ratings indicate which motivational system is predominantly active (appetitive or defensive) while arousal ratings indicate the level of motivational activation (Bradley et al., 2001a). Therefore, using the available normative ratings of valence and arousal, researchers can create reproducible sets of pictures to evoke emotional reactions varying in intensity and involving both pleasant and unpleasant affect.

However, several studies have consistently demonstrated that cultural and social desirability biases skew subjective evaluations, and selecting experimental materials considering

exclusively self-reported ratings of valence and arousal can complicate the interpretation of physiological findings. For example, studies assessing event-related potentials (ERPs) to emotional and neutral pictures have demonstrated that self-reports do not always predict brain responses (Schupp et al., 2000; Weinberg & Hajcak, 2010). Moreover, while images with sport and adventure contents are rated similarly to erotic images in terms of emotional valence, erotic images prompt significantly stronger physiological responses than sport and adventure contents (Bradley et al., 2001a). In addition, despite the presence of sex differences in ratings of erotic pictures and mutilations, females and males often show similar physiological engagement to these contents when skin conductance response is measured (Bradley et al., 2001b).

While self-reports can provide an important window into an individual's subjective experience, these reports cannot provide information regarding the extent of neurophysiological emotional engagement. Thus, we propose that neuroaffective responses should be used to integrate the information obtained by self-reports to enhance the stimulus selection process. Toward this goal, we used the Late Positive Potential (LPP) as an objective neurophysiological index of emotional engagement. The LPP, a centroparietal positive ERP component that increases in response to emotional (pleasant or unpleasant) compared to neutral pictures, is a robust physiological measure of motivational relevance that reflects the engagement of attentional resources by emotional stimuli and the activation of motivational systems (Bradley, 2009; Codispoti et al., 2006; Cuthbert et al., 2000; De Cesarei & Codispoti, 2011; Ferrari et al., 2011; Weinberg & Hajcak, 2010). Previous studies have demonstrated that the LPP has high internal and test-retest reliability (Huffmeijer et al., 2014; Moran et al., 2013; Weinberg et al., 2021), and it is robust to manipulations affecting the perceptual characteristics of the images (e.g., presentation time, color, or repeated presentations; Codispoti et al., 2009, 2012). In

addition, the LPP has been successfully used to assess individual differences in emotional reactivity in various populations (e.g., Cofresí et al., 2022; Kujawa et al., 2015; Versace et al., 2019).

The primary aim of the current study is to report electrophysiological normative responses for naturalistic pictures spanning pleasant (erotica, romantic, food-related, and landscapes), neutral (people engaged in mundane activities and household objects), unpleasant (mutilation, violence, sadness and accidents), and cigarette-related contents. In a novel picture-based analysis we pooled together data from 763 individuals and 323 pictures from three published studies that used a passive viewing paradigm (Frank et al., 2020; Versace et al., 2012, 2016). Of these images, 215 pictures were selected from the IAPS, 36 were images that had similar contents to those included in the IAPS and 72 were cigarette-related images from existing picture sets (Carter et al., 2006; Gilbert et al., 1999).

We first demonstrate the validity of our results by comparing the normative self-reported ratings of pleasure and arousal for the 215 IAPS pictures (IAPS normative ratings) with the ratings of the same pictures obtained in the current study from a community sample in Houston, Texas (HTX ratings), and then we present the LPP response evoked by these pictures (1) across the entire sample, (2) separately for males and females, and then (3) separately for smokers and non-smokers. By sharing these electrophysiological normative responses (accessible via Supplementary materials), our goal is to provide a neuroaffective measure to integrate the information obtained by self-reports and contribute to improve experimental stimulus selection procedures.

## 2. METHODS

### 2.1 Study Participants

Participants were 763 individuals from the Houston metropolitan area that, between 2012 and 2017, volunteered in studies that enrolled exclusively smokers interested in quitting (Versace et al., 2012), smokers interested in quitting and non-smokers controls (Frank et al., 2020), or enrolled exclusively non-smokers (Versace et al., 2016). Inclusion and exclusion criteria were similar across studies and aimed at ensuring recruitment of healthy individuals free from psychiatric disorders. Pregnant or lactating women were excluded from the studies. All participants signed a consent form before starting the study. Table 1 shows the demographic characteristics of the sample, and supplementary Figure S1 shows the age distribution of the participants.

## **2.2 Procedures**

All procedures were approved by the MD Anderson Institutional Review Board. Procedures were similar across studies: At baseline (i.e., before participants were randomized to any treatment), we (1) collected self-report questionnaires about mood and other variables related to the studies' specific scientific goals (the questionnaires differed across studies), (2) placed a 129-channel sensor array and continuously record EEG during a passive picture viewing task, (3) and, after removing the EEG sensors, collected subjective ratings of emotional valence and arousal using an electronic version of the Self-Assessment Manikin (Bradley & Lang, 1994). In all the studies (Frank et al., 2020; Versace et al., 2012, 2016), participants rated half of the pictures that they viewed during the EEG session.

## **2.3 Passive Picture Viewing Task**

Irrespective of the study, participants viewed comparable slideshows that included approximately the same number of pictures (192 or 160) distributed across the same semantic categories: erotic scenes (pleasant, high arousing contents), romantic scenes, landscapes, food,

neutral household objects, people involved in mundane activities, unpleasant objects (including a variety of unpleasant contents such as pollution or accidents), sad and violent scenes (henceforth referred to as violence, since this is the content with the largest number of exemplars), mutilations (unpleasant, high arousing contents), people smoking cigarettes, and cigarette-related objects (e.g., packs of cigarettes, ashtrays). Of the 323 available pictures, most of the emotional and neutral images were selected from the IAPS (N=219); additional scenes were selected from other sources including the internet to supplement categories with a limited number of stimuli. Cigarette-related pictures were selected from two existing stimulus sets (Carter et al., 2006; Gilbert & Rabinovich, 1999). The Supplement includes IAPS catalog numbers for each picture used in the current analysis, as well as coded numbers for the cigarette-related pictures and additional pictures downloaded from the internet (pictures are available upon request).

In each study, participants sat in a comfortable chair placed in front of a computer screen and were instructed to move as little as possible during the picture presentation to limit EEG artifacts. Images appeared on the screen every 3 to 5 seconds and remained visible for 4 seconds. During the picture presentation, no more than two pictures from the same category were presented sequentially. Every 5 minutes, a short pause allowed the participant to relax.

## **2.4 EEG data collection**

EEG was recorded using a 129-channel Geodesic Sensor Net, amplified with an AC-coupled high-input impedance amplifier (Geodesic EEG System 200, Electrical Geodesics Inc., Eugene, OR, USA), and referenced to the Cz electrode site. The sampling rate was 250 Hz, and data were filtered online by using 0.1-Hz high-pass and 100-Hz low-pass filters. Scalp impedance of each sensor was kept below 50 KΩ, as suggested by the manufacturer.

## **2.5 SAM rating**

Following EEG data collection, the sensor net was removed, and the participants completed the valence and arousal ratings using an electronic version of the Self-Assessment Manikin (Lang, 1980; Bradley & Lang, 1994). Prior to the rating procedure, a trained research assistant read to each participant the rating directions according to the procedure described in the IAPS manual (Lang et al., 2008). Then, two practice trials were presented to familiarize participants with the rating procedure. The research assistant remained in the room to answer any questions during the practice trials. If the participant asked how they should rate a particular picture, the research assistant reiterated that there were no right or wrong answers, and that it was up to the participant to rate the picture according to the feelings that the picture prompted, keeping in mind the anchor adjectives at the two extremes of the SAM valence and arousal scales. After the short practice, participants rated half of the pictures that they viewed in each category during the EEG assessment. Pictures were presented for 3 seconds in pseudo random order (no more than two pictures from the same picture category). Then, the valence scale appeared and remained visible until the participant clicked on one of the available ratings boxes, followed by the arousal scale. After one second, the next picture appeared, and the rating procedure was repeated.

## **2.6 EEG Data Reduction**

Offline data reduction followed a standard pipeline that included low-pass filtering (30Hz), interpolation of broken channels, re-referencing to the average reference, and eye blink correction (using a spatial filtering method as implemented in BESA (v5.1.8.10; MEGIS Software GmbH, Gräfelfing, Germany). Data were then exported to Brain Vision Analyzer (Brain Products GmbH), where the EEG data were segmented into 900-millisecond epochs starting 100 milliseconds before picture onset. Baseline correction was applied by using the data

from the 100-millisecond segment preceding picture onset. Artifacts were identified in each segment and each channel using the following criteria: EEG amplitude above 100 or below -100 µV, absolute voltage difference between any two data points within the segment larger than 100 µV, voltage difference between two contiguous data points above 25 µV or variation of less than 0.5 µV for more than 100 ms. Channels contaminated by artifacts in more than 40% of the segments were interpolated using spherical splines. All stimulus triggers were recoded using identifiers unique to the pictures that the participants saw during the session. Then, we pooled the voltage from 10 central and parietal sensors (see Results section for additional details) and, using the same criteria outlined above, artifacts affecting this pooled channel were identified and eliminated from the subsequent analyses. This procedure yielded one segment for every picture that the participant saw.

These segments were used to compute the average ERPs for each image, and based on previous studies (Frank et al., 2020; Minnix et al., 2013; Versace et al., 2012, 2016, 2019) the LPP was calculated for each picture by averaging the voltage recorded between 400 and 800 ms post picture onset. These LPP values were used as dependent variables in the statistical analyses. For each picture, LPPs were averaged across subjects in different ways: (1) across the whole sample, (2) separately for males and females and (3) separately for non-smokers and smokers.

Since stimuli varied slightly across studies or were not always presented an equal number of times, the average LPP value for each picture varied in the number of participants that contributed to the mean. The image with the least number of participants that contributed to the LPP mean resulted from the average of 56 subjects, while the image with the largest amount of contributing data resulted from the average of 543 subjects. The average number of participants contributing to the LPP mean for a picture was 312 subjects.

## 2.7 SAM Data Reduction

For each participant, we exported the ratings of valence and arousal associated with each picture and averaged separately the ratings of valence and arousal attributed to each picture.

Each picture was rated by an average of 160 participants (range: 47-323)<sup>1</sup>. For each image we computed average ratings of emotional valence and arousal across the whole sample, separately for males and females, and separately for smokers and non-smokers.

## 2.8 Data analyses

First, to ensure the validity of our procedures, we compared the subjective ratings of emotional valence and arousal for pleasant, neutral, and unpleasant contents that we collected in our studies with the normative ratings reported in the IAPS. We correlated the IAPS normative ratings of valence and arousal with the corresponding values obtained from our sample, and then we assessed the pattern of differences across categories (MU, VI, OU, NO, NP, FD, LA, RO, ER) in separate ANOVAs for the IAPS normative ratings and HTX ratings. We assessed differences between the two ratings sets with one-way ANOVAs, separately by valence and arousal. Lastly, we used separate ANOVAs to assess the effects of category in males and females, and between-sex differences for each picture category.

We used an identical approach to evaluate differences in LPP amplitude as a function of picture content: We followed up the ANOVA assessing the main effect of picture content with separate ANOVAs for males and females, and then we ran a between-sex comparison.

The primary analyses reported in the current study were performed using exclusively IAPS images. Then, we ran a second set of analyses including all images. The number of exemplars included in each analysis is reported in Table S1.

## 3. RESULTS

The Supplement includes mean valence and arousal ratings and mean LPP amplitudes for each picture included in the study.

### **3.1 Valence and arousal ratings for pleasant and neutral pictures**

*These analyses included only images from the IAPS and were primarily designed as a validation procedure to assess the similarity between the IAPS normative ratings and the newly compiled HTX ratings.*

As illustrated in Figure 1A (left), we observed a high positive correlation between the valence ratings that the HTX participants attributed to the IAPS pictures and the normative ratings reported in the IAPS ( $r=.97$ ,  $p<.001$ ). We observed a significant main effect of category for both the IAPS normative ratings ( $F_{8,206} = 282.06$ ,  $p<001$ ) and HTX ratings ( $F_{8,206} = 272.70$ ,  $p<001$ ). For both sets of ratings, pleasant contents had the highest valence ratings, followed by neutral contents and then unpleasant contents. Pairwise comparisons are reported in Table 2, while Figure 1A (right) illustrates differences in valence ratings between the IAPS normative ratings and HTX ratings. A similar response pattern for valence ratings was observed in males and females (Figure S2) and, in line with many previous findings (e.g., Bradley et al., 2001b), males rated erotic images as more pleasant than females (IAPS normative:  $F_{1,42} = 44.26$ ,  $p < .001$ ; HTX ratings:  $F_{1,42} = 139.91$ ,  $p < .001$ ) and mutilations were rated as more unpleasant by females than males (IAPS normative:  $F_{1,46} = 35.06$ ,  $p < .001$ ; HTX ratings:  $F_{1,46} = 17.50$ ,  $p < .001$ ).

We also observed a high positive correlation between the emotional arousal ratings that the HTX participants attributed to the IAPS pictures and the normative ratings reported in the IAPS ( $r=.82$ ,  $p<.001$ ; Figure 1B, left). A significant main effect of category was observed for both the IAPS normative ratings ( $F_{8,206} = 68.17$ ,  $p<001$ ) and HTX ratings ( $F_{8,206} = 42.19$ ,  $p<001$ ),

where erotica and mutilations had the highest arousal ratings compared to other contents (pairwise comparisons are reported in Table 2). Between-sample comparisons revealed that many pleasant and unpleasant categories were rated significantly lower in arousal from HTX ratings compared to the IAPS normative ratings (Figure 1B, right). In line with valence ratings, males rated erotic pictures as more arousing than females (IAPS normative:  $F_{1,42} = 42.26$ ,  $p < .001$ ; HTX ratings:  $F_{1,42} = 49.62$ ,  $p < .001$ ), while females rated mutilations as more arousing than males (IAPS normative:  $F_{1,46} = 35.06$ ,  $p < .001$ ; HTX ratings:  $F_{1,46} = 18.93$ ,  $p < .001$ ).

Despite the differences in arousal ratings observed in the HTX sample relative to the IAPS normative ratings, the affective space resulting from integrating valence and arousal was similar in both the IAPS and the HTX. Figure 1C shows that in both the IAPS and the HTX sample, pictures rated as highly pleasant or highly unpleasant are associated with higher arousal ratings, resulting in a significant quadratic relationship between pleasure and arousal (IAPS normative ratings, quadratic trend:  $R^2 = .56$ ,  $p < .001$ ; HTX ratings, quadratic trend:  $R^2 = .66$ ,  $p < .001$ ).

### **3.2 Electrophysiological normative responses for pleasant and neutral pictures**

These analyses included images from the IAPS and images added by the authors, for a total of 251 pictures (see Table S1).

**3.2.1 Grand-average ERPs.** Figure 2 (left) illustrates the average ERPs, with the average computed over participants for each picture in a first step and then for pleasant, neutral, and unpleasant contents as a second step.

**3.2.2 LPP amplitude.** *In these analyses, first we assessed differences in LPP amplitude between emotional categories across the whole sample and then separately for males and females.* The amplitude of the LPP (400-800 ms post-stimulus onset) was positively correlated

with arousal ratings,  $r = 0.61$ ,  $p < .001$ . As expected, LPP amplitude changed as a function of emotional content (main effect of Category:  $F_{8,242} = 32.48$ ,  $p < .001$ ) and, as illustrated in Figure 2 (right), larger LPP amplitudes were observed for erotic pictures and mutilations, followed by romance and violence, and then food, landscapes, unpleasant objects, neutral people, and neutral objects (pairwise comparisons are reported in Table 2). An identical LPP pattern was observed for both males and females (Figure 3, left), where the largest LPP amplitude was observed for erotic pictures and mutilations. The LPP amplitude for erotic pictures and mutilations was also significantly larger than the LPP amplitude for all other stimulus contents (pairwise comparisons are reported in Table S1) and did not differ from one another. A small difference between males and females was found for LPP amplitude evoked by erotic pictures ( $F_{1,50} = 4.12$ ,  $p = .048$ ), where males showed slightly larger LPP amplitudes than females.

We observed a moderate correlation between the LPP amplitude elicited by each picture from the HTX sample for males and females ( $R^2 = .52$ ; Figure 3 right), suggesting that the contribution of each exemplar into the average categorical effect reported earlier differed between sex. Hence, LPP values are separately reported in the supplementary material for males and females.

### 3.3 Cigarette-related pictures

*These analyses aimed at exploring the extent to which self-reported ratings of valence and arousal, and electrophysiological responses to the images differed between smokers and non-smokers.* Both smokers and non-smokers showed the classic ‘boomerang’ shape for the affective space (Figure 4, left) with a clear distinction for cigarette pictures (black) that stood out compared to other emotional and neutral contents (faded colors). A main effect of content was observed in both smokers and non-smokers for both valence (smokers:  $F_{9,172} = 253.88$ ,  $p < .001$ ;

non-smokers:  $F_{9,172} = 347.91$ ,  $p < .001$ ) and arousal (smokers:  $F_{9,172} = 59.86$ ,  $p < .001$ ; non-smokers:  $F_{9,172} = 83.45$ ,  $p < .001$ ), indicating that subjective emotional experience varied based on pictures contents of the pictures. Non-smokers rated cigarette pictures as more unpleasant than neutral contents and lowest in arousal compared to every other category, while smokers rated cigarette pictures similarly to neutral scenes in terms of valence but reported arousal levels similar to those reported when viewing romance and unpleasant objects (pairwise comparisons for smokers and non-smokers are reported in Table S3). Importantly, a direct comparison between smokers and non-smokers revealed that smokers rated cigarette-related pictures as more pleasant ( $p < .001$ ) and more arousing ( $p < .001$ ) than non-smokers (Figure 4, right).

Stimulus content modulated the LPP amplitude similarly for both non-smokers ( $F_{8,173} = 26.95$ ,  $p < .001$ ) and smokers ( $F_{8,173} = 26.20$ ,  $p < .001$ ): pleasant, unpleasant, and cigarette pictures prompted larger LPPs than neutral ones (Figure 5, left). For both groups erotica and mutilations prompted the largest LPPs and neutral contents the lowest (Figure 5, right; pairwise comparisons between categories, separately for non-smokers and smokers, are reported in Table S3). We did not observe any between-group differences in LPP amplitude for any category, including cigarette-related pictures ( $p = .088$ ; all other categories:  $p_s > .31$ ).

#### 4. DISCUSSION

The primary aim of the current picture-based analysis was to report electrophysiological normative responses for naturalistic images across a wide variety of pleasant, neutral, unpleasant, and cigarette-related contents. By averaging LPP responses (a robust measure of motivational relevance) across subjects, instead of across images, we were able to compute the mean LPP response associated with each image. These values are available in the supplementary material and could be used to integrate information derived from self-reports of valence and arousal to

improve the selection of experimental materials to probe both the appetitive and defensive motivational systems.

#### **4.1 Replicability of self-reports of valence and emotional arousal**

In a first set of analyses, the normative data of valence and arousal from the IAPS picture set were used as a ‘benchmark’ for the HTX dataset. Valence and arousal ratings from the HTX sample scattered across the affective space in a pattern similar to that of the IAPS normative ratings: neutral stimuli grouped at the center of the ‘boomerang’ shape and arousal progressively increased as ratings of pleasantness or unpleasantness increased.

While valence ratings in the HTX sample were similar to the IAPS normative ratings, the arousal ratings from the HTX sample covered a more restricted range of values. Demographic differences across participants may have contributed to this inconsistency. While we enrolled a diverse community sample ranging in age from 18 to 65 years, the IAPS norms were obtained from undergraduate students, the standard sample of most research studies on emotion (Henrich et al., 2010). Anecdotally, however, we noticed that participants were more confused by the arousal scale than by the valence scale and most questions directed to the research assistants during the practice trials were about the interpretation of the arousal scale. We think that confusion about how to interpret the arousal scale might have led some participants to give implausible ratings to some images (See Supplementary Discussion for details).

Despite the restricted ratings range for arousal, the overall pattern of valence and arousal ratings in the HTX sample was remarkably similar to the pattern found in the IAPS normative rating and replicates previous findings (Bradley et al., 2001a). In fact, valence ratings in the HTX analysis demonstrated that all pleasant contents were rated as more pleasant than neutral contents. Unpleasant objects and pictures of violence were rated with similar valence ratings,

followed by mutilation pictures that were rated as the least pleasant of the dataset. Similar levels of pleasantness were reported when viewing erotica, romance, pleasant objects, and food. On average, pictures depicting erotic contents were rated as the most arousing, while all other emotional contents (romance, pleasant objects, food, unpleasant objects, violence, mutilations) were rated similarly in terms of induced arousal; neutral pictures (people and objects) were rated lowest in arousal. Males and females reported very similar ratings of valence and arousal across all categories. Replicating previous studies (Bradley et al., 2001b), males rated erotic scenes as more pleasant and more arousing than females, while females rated mutilations as more unpleasant and more arousing than males. Another important replication is that when smokers and non-smokers were compared directly, smokers rated cigarette-related pictures as more pleasant and more arousing than smokers (Deweese et al., 2018). Closely replicating established patterns of self-reported ratings of valence and emotional arousal validated our experimental approach and allowed us to proceed with our analyses of the LPP.

#### **4.2 Late Positive Potential (LPP)**

Across the entire sample, the centroparietal LPP responses evoked by pleasant and unpleasant images were higher than those evoked by neutral images. Specifically, the highest LPPs were elicited by pictures of erotica and mutilations, followed by romance, food, unpleasant objects, and violence, with the lowest LPP elicited by landscapes, neutral objects, and neutral people. This pattern replicated previous studies demonstrating that the largest LPP amplitudes are reliably evoked by erotica and mutilation pictures (De Cesarei & Codispoti, 2011; Schupp et al., 2000; Weinberg & Hajcak, 2010) and extends previous research showing that these contents prompt the largest skin conductance changes (e.g., Bradley et al., 2001a), the largest attenuation of startle probe P3 amplitude (Bradley et al., 2006), enhanced scanning (Bradley, Costa, & Lang,

2015), the largest pupil dilation (Bradley et al., 2017), largest attentive capture (Padmala et al., 2018), and enhanced blood-oxygen-level-dependent (BOLD) activity (Sabatinelli et al., 2005; Sambuco et al., 2020; Versace et al., 2011). When we analyzed separately the LPP responses from males and females, we observed the same pattern of brain responses we observed across the entire sample: erotica and mutilations prompted the largest LPPs followed by romantic, violence, unpleasant objects, food, neutral people, neutral objects, and landscapes.

Since the data pooled for the HTX analyses came from studies that were not originally designed to provide a normative evaluative and LPP responses, the number of subjects that contributed to each picture in the dataset is not perfectly balanced. Hence, the mean value calculated for pictures viewed by fewer subjects might be somewhat less reliable than the mean value calculated for images viewed by a larger sample. That being said, the picture viewed by the fewest number of subjects was presented to 47 participants, and on average, 160 participants contributed to each picture's value.

#### **4.3 Self-reports and LPP: Different and complementary information**

Although the LPP and self-report ratings are both indices of emotional arousal, these measures provided partially divergent information about emotional engagement following picture presentation. First, when considering arousal self-reports, erotica were rated as most arousing and neutral pictures as least arousing, but all other emotional contents were rated similarly. That is, mutilation pictures received similar arousal ratings to pictures of food or pleasant and unpleasant objects. Yet, the LPP responses demonstrated that erotica and mutilations were the most effective contents in prompting affective engagement, while images of food and pleasant or unpleasant objects prompted LPPs more similar to those of neutral contents. Second, self-reported ratings of emotional arousal and LPP responses diverged when we

considered responses by sex. Males and females rated erotica and mutilations differently in terms of both valence and arousal but showed comparable LPP responses for both contents. Third, smokers and non-smokers rated smoking-related contents differently on both valence and arousal, yet these contents prompted similar LPP responses in both groups. Altogether, these findings demonstrate that patterns of emotional engagement based on self-reports and LPP are not identical and selecting stimuli using self-reports norms alone to investigate neuroaffective engagement may bias the interpretation of the physiological findings (Franken et al., 2008; Ito et al., 1998; Schupp et al., 2000; Weinberg & Hajcak, 2010).

This proposal is obviously not new, and largely stems from influential work suggesting that evaluative dimensions of affect, such as valence and arousal, are only one possible system to investigate affective reactions. Lang (1988, 2010) proposed that the investigation of emotional responses can be pursued across three separate systems: (1) the language of emotion (expressive and evaluative; SAM ratings of valence and arousal in the present study); (2) physiological changes (somatic, autonomic, and electrophysiological; LPP in the present study); and (3) behavior (e.g., approach and avoidance, “freezing”). Hence, selecting stimuli solely based on the evaluative dimension to investigate physiological correlates of emotional processes might be problematic for several reasons. First, subjective experiences of emotion and biologically derived measures of affect are known to be poorly correlated (Taschereau-Dumouchel et al., 2022). Second, conscious evaluations are fully formed a few seconds after pictures are presented, at the end of a cascade of processes that also include appraisal. Neuroaffective measures such as the LPP, however, reliably peak within a short interval of encountering an emotional stimulus (for the LPP, between 300 to 900 ms post picture onset), providing information regarding the extent of attentional and motivational engagement on a millisecond basis. Finally, expressive and

evaluative measures require individuals to willingly share their responses. Neuroaffective measures are particularly useful in this case because they do not require a behavioral response to document processing of visually presented information. Hence, these measures can circumvent the limitations of self-report assessments while still reflecting subtle individual differences in affective stimulus processing.

While advanced methods to select pictures for psychophysiological experiments based on valence and arousal ratings can be developed (Wilson et al., 2021), so far these methods rely exclusively on self-reports. Altogether, the present findings and results from other psychophysiological studies (e.g., Bradley et al., 2017) demonstrated that only some picture contents that are rated as emotionally arousing reliably prompt psychophysiological responses. As recently described by Bradley et al. (2017) “*After more than 25 years of research using emotional pictures, it is now clear that evaluative (arousal) ratings of natural scenes are not synonymous with the degree of engagement of defensive or appetitive activation measured in the brain or body*” (pag. 1432). Hence, we propose that evaluative and physiological information should be integrated to select the most appropriate set of pictures to use in psychophysiological assessments.

Given current trends in personalized approaches to treatment and assessment, the results of this study may also help select materials that are better suited for subject-by-subject analyses (Schupp & Kirmse, 2021, 2022). In a series of recent studies evaluating the potential to use neural correlates of affective stimulus evaluation at the individual level, Schupp and Kirmse (2021, 2022) observed significantly larger LPP amplitudes to high- compared to low-arousing emotional stimuli spanning three behavioral systems: predator fear (threatening animals, non-threatening animals), disease avoidance (mutilated and injured bodies, neutral people), and

sexual reproduction (erotic couples, romance). LPP amplitude was reliably larger for sexual reproduction than predator fear in 100% of participants, whereas there was slightly more variability among the unpleasant contents. Furthermore, they observed a limited number of non-significant LPP effects that were limited to a single behavioral domain (predator fear) in a small subset of participants, leading the authors to conclude that these effects may be stimulus-specific. Data from the individual subject level may shed light on the mismatch in LPP and self-reported ratings of emotional arousal we observed in the present study and may push forward the need to rely on electrophysiological normative responses to reliably probe appetitive and defensive motivational systems.

#### **4.4 Summary**

The results of this study demonstrate the replicability of self-reported ratings of valence and emotional arousal and provide electrophysiological normative responses for naturalistic pictures spanning a wide range of contents. In highlighting a divergence in the self-reported stimulus ratings and LPP data, we suggest that using normative electrophysiological responses may be a better suited approach to stimulus selection compared to utilizing only normative ratings of valence and arousal. This approach circumvents the limitations of self-report assessments that rely on subjective and/or behavioral responses, and capitalizes on an objective, neural indicator of the processing of emotionally arousing stimuli. This approach may also be useful moving forward to tailor stimulus selection to populations whose behavior is sensitive to specific environmental cues.

## **Footnotes**

1. One picture was rated by 15 participants. All other pictures were rated by at least 47 participants.

## Figures Caption

**Figure 1.** Comparison of SAM ratings between the IAPS normative ratings and HTX ratings for valence (A), arousal (B), and affective space (C). In A and B, the left panel illustrates the ratings correlations between IAPS normative ratings and HTX ratings, while the right panel illustrates differences based on categorical contents. Note. MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; LA: Landscapes; RO: Romance; ER: Erotica. Results of between-group comparison significant at \*\*\* $p<.001$ , \*\* $p<.01$ , \* $p<.05$ .

**Figure 2.** Left. Grand-averaged ERP waveforms (the shaded area represents a 95% confidence interval) for each image across participants in the central sensors (illustrated in the inset) show that, on average, both pleasant and unpleasant contents increase the amplitude of the late positive potential (LPP) compared to neutral contents; The black box on the X axis indicates the time interval (400-800ms) used to compute the Late Positive Potential (LPP). Right. LPP amplitude elicited by pictures of different contents. Note. MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; LA: Landscapes; RO: Romance; ER: Erotica.

**Figure 3.** Mutilations and erotica prompt the largest LPPs (400–800 ms) compared with other contents across the entire sample (left) and in both males and females (right). The bars represent 95% CI. Note. MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; LA: Landscapes; RO: Romance; ER: Erotica.

**Figure 4.** On the left, the affective space for smokers and non-smokers illustrates the relationship between valence and arousal for emotional (faded colors) and cigarette pictures (black). On the right, valence (top) and arousal (bottom) ratings across contents for smokers (light gray) and non-smokers (black). The bars represent 95% CI. Note. MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; RO: Romance; ER: Erotica; CI: Cigarettes.

**Figure 5.** Left. Grand-averaged ERP waveforms (he shaded area represents a 95% confidence interval) for each image across participants in the central sensors (illustrated in the inset) show that, on average, pleasant (PLE), unpleasant (UNP), and cigarette-related contents (CIG) increase the amplitude of the late positive potential (LPP) compared to neutral contents (NEU); The black box on the X axis indicates the time interval (400-800ms) used to compute the Late Positive Potential (LPP). Right. LPP amplitude elicited by pictures of different contents for non-smokers and smokers. Note. MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; RO: Romance; ER: Erotica; CI: Cigarette.

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**Table 1.** Characteristics of the samples included in the current analyses.

Study	Number of subjects	Mean Age	Age range	% Females	Race			% Smoker
					% White	% Black	% Other *	
EEG1	242	45	19-65	37	65	22	13	100
EEG2	340	45	18-65	50	26	69	5	70
EEG3	181	35	20-55	76	33	46	21	0
Total	763	43	18-65	52	41	47	12	63

Note: EEG1: Versace et al., 2012; EEG2: Frank et al., 2020; EEG3: Versace et al., 2016; \* Non-white other than Black, more than one race, or no response to the question.

**Table 2.** Tukey HSD pairwise comparisons ( $p < .05$ ) for SAM rating of valence and arousal (separately reported for IAPS normative ratings and HTX ratings) and LPP. *Note: Categories which share at least one letter do not significantly differ (e.g., in the LPP column, Erotica and Mutilations do not differ from each other, and both differ from all other categories).*

Category	SAM ratings						LPP
	Valence		Arousal				
	IAPS	HTX	IAPS	HTX			
Erotica	A	A	A	A			A
Romance	A	A	B	B			B
Landscapes	A	A	C	B			C
Food	A	A	B	B			D
Neutral People	B	B	D	C			D
Neutral Objects	B	C	E	C			D
Unpleasant Objects	C	D	B	B			C
Violence	C	D	B	B			B C
Mutilations	D	E	A	B			A

**Figure 1**

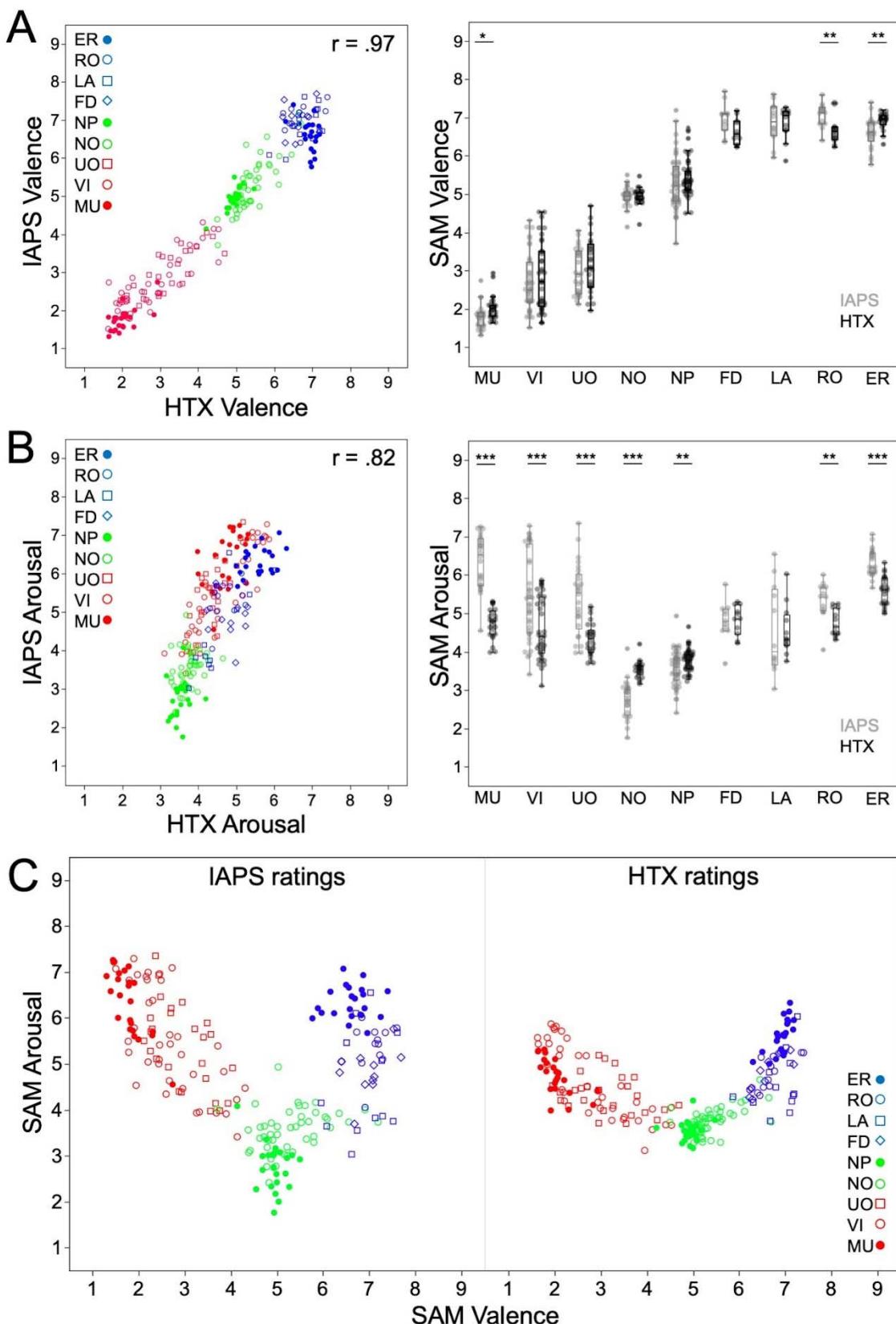


Figure 2

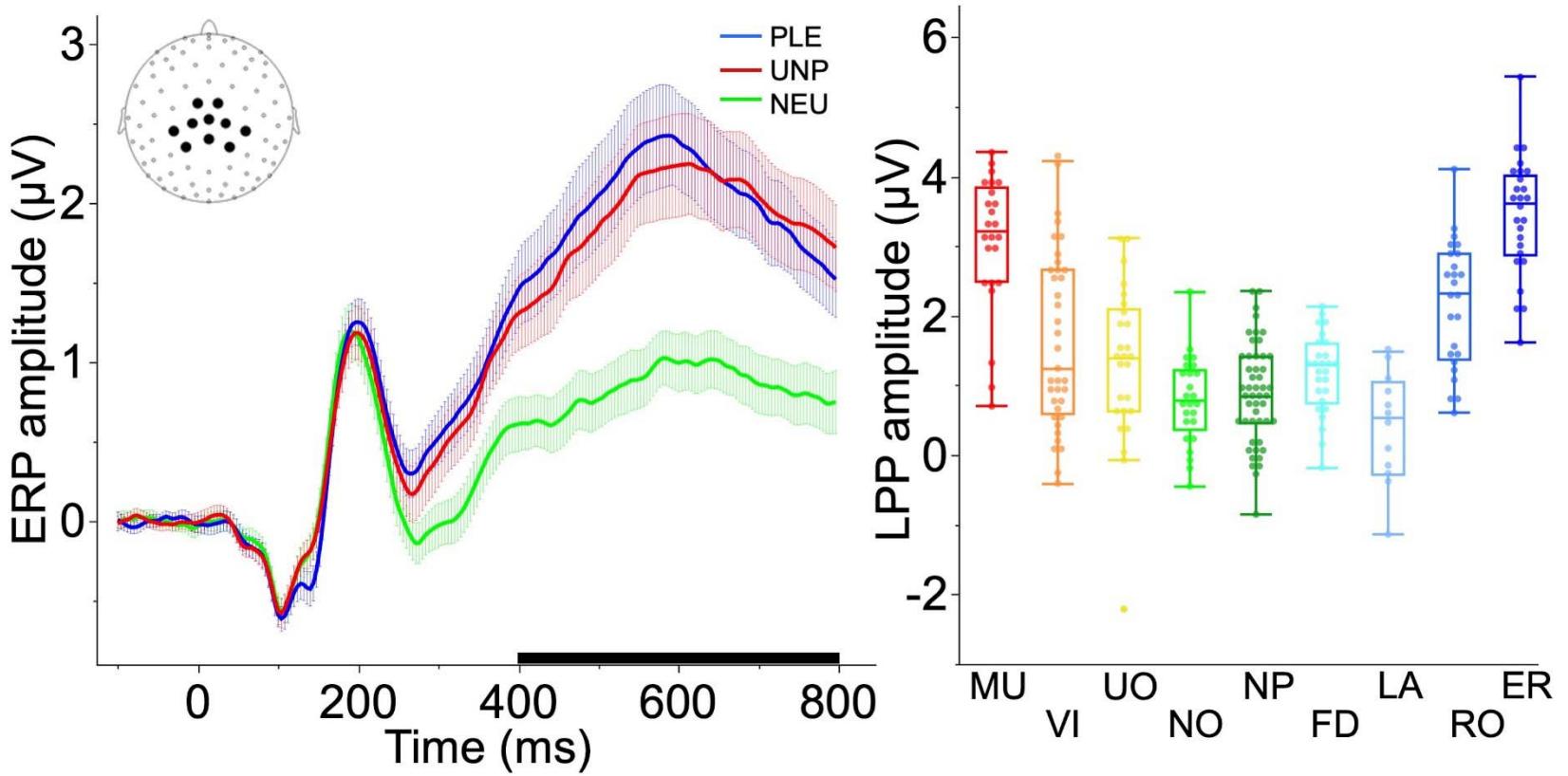


Figure 3

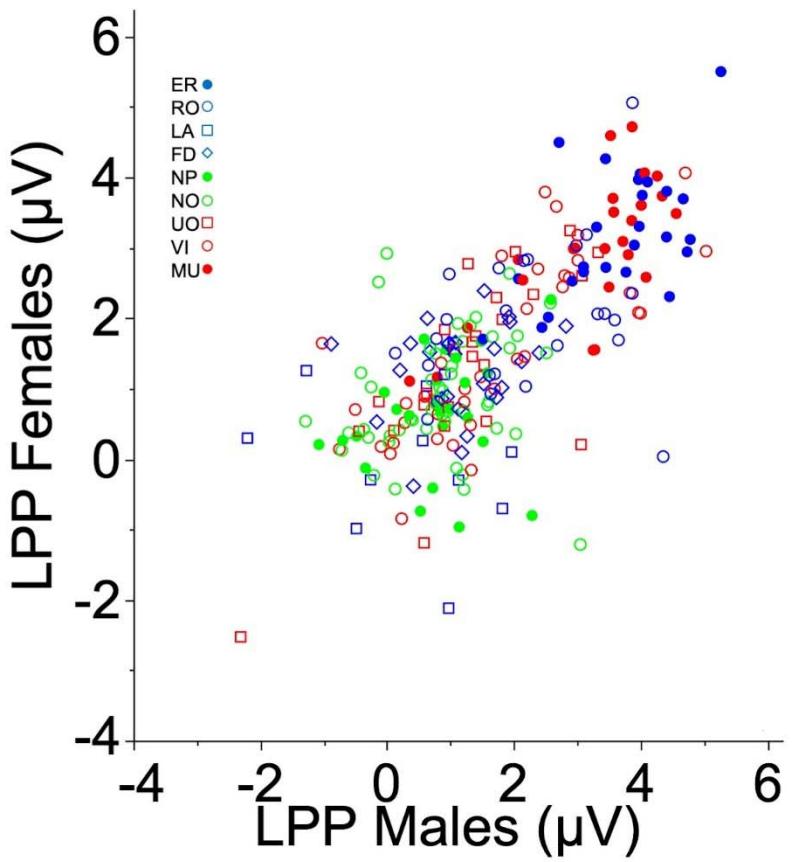
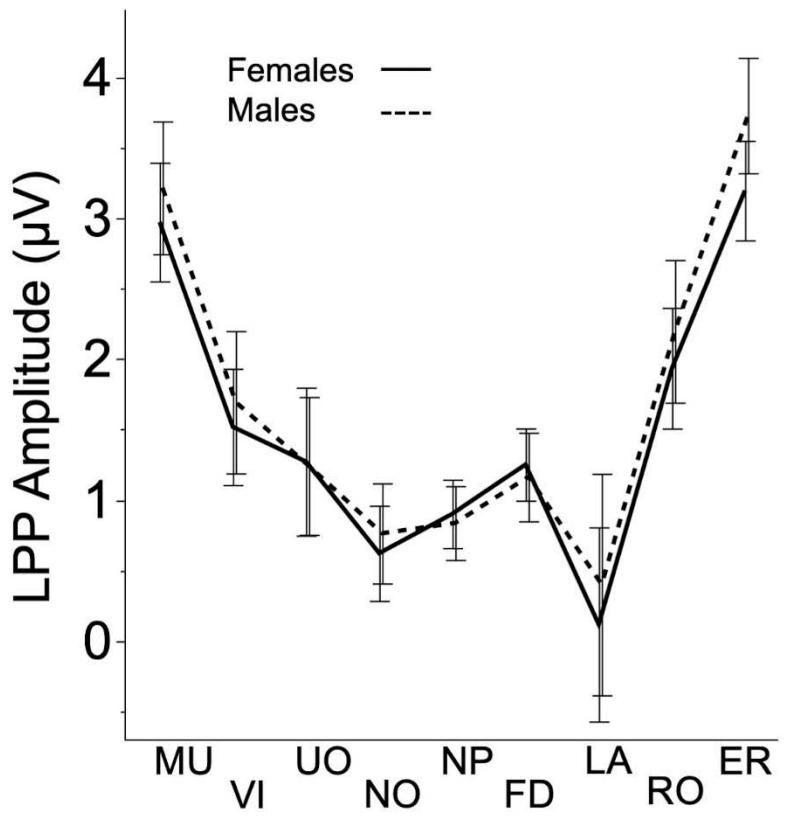
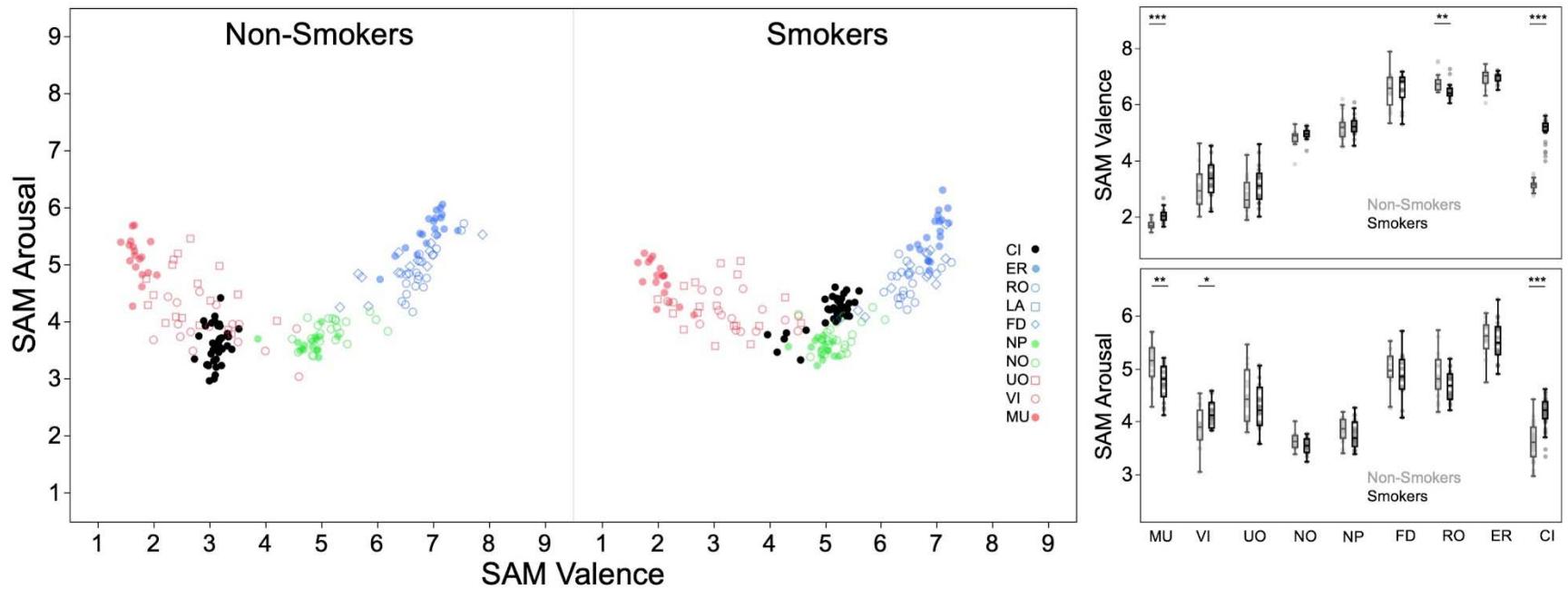
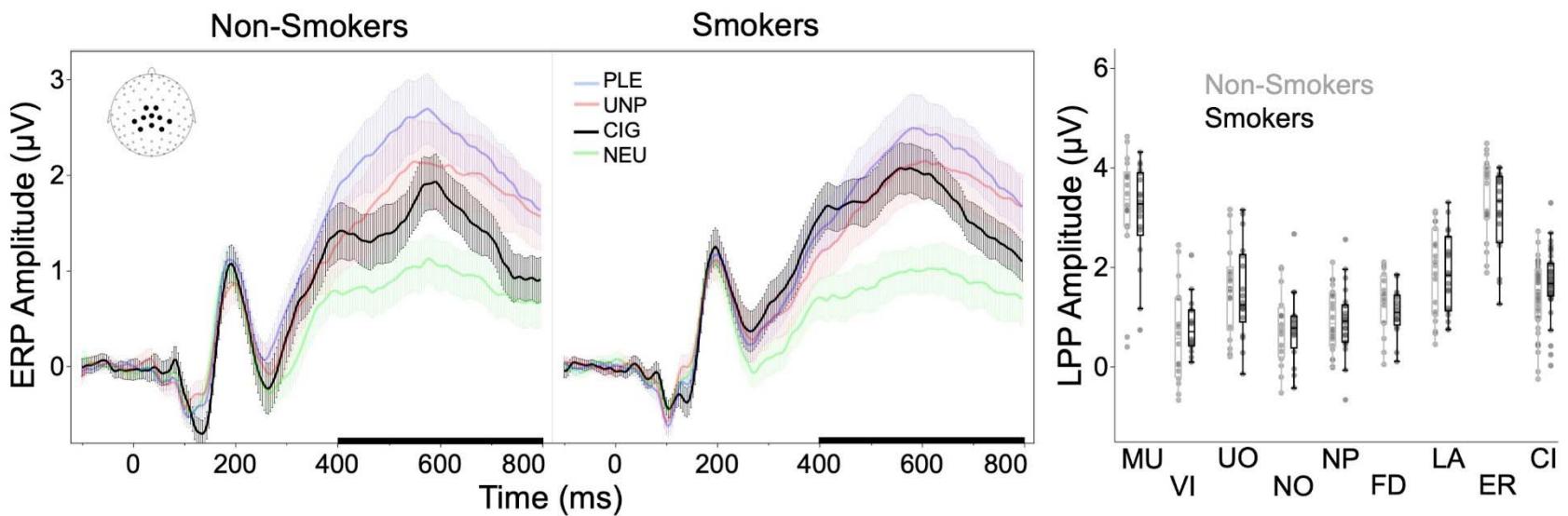


Figure 4



**Figure 5**

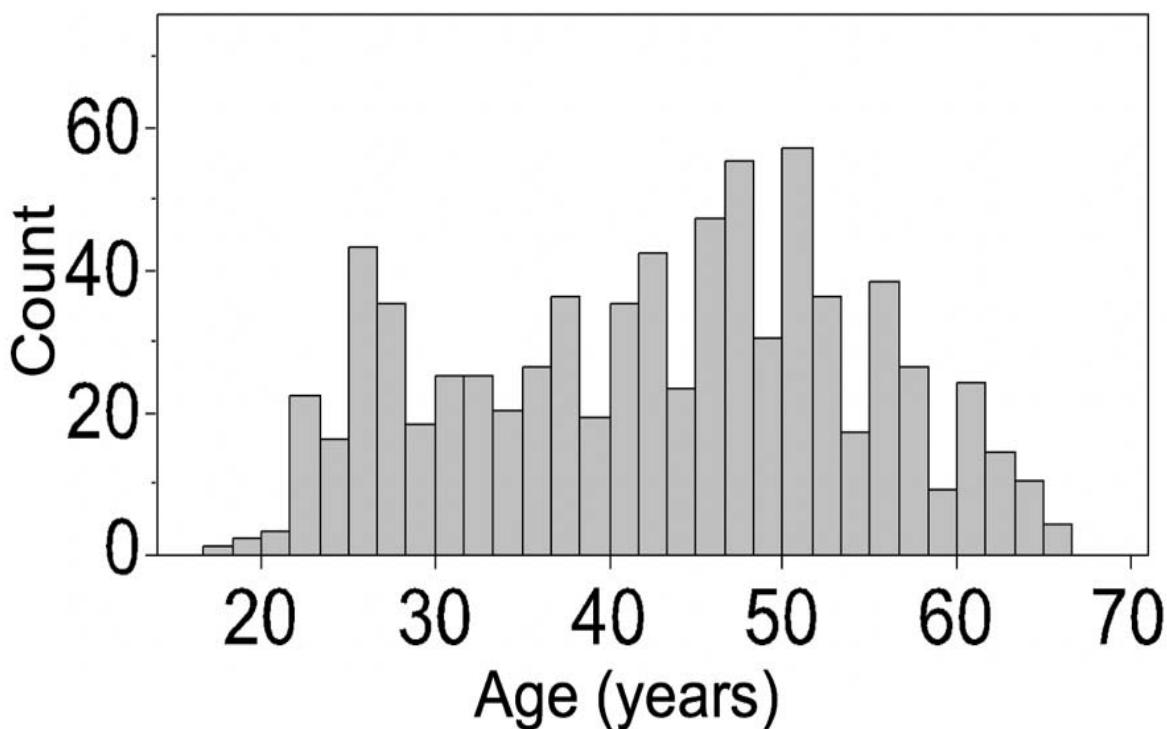


## SUPPLEMENTARY MATERIALS

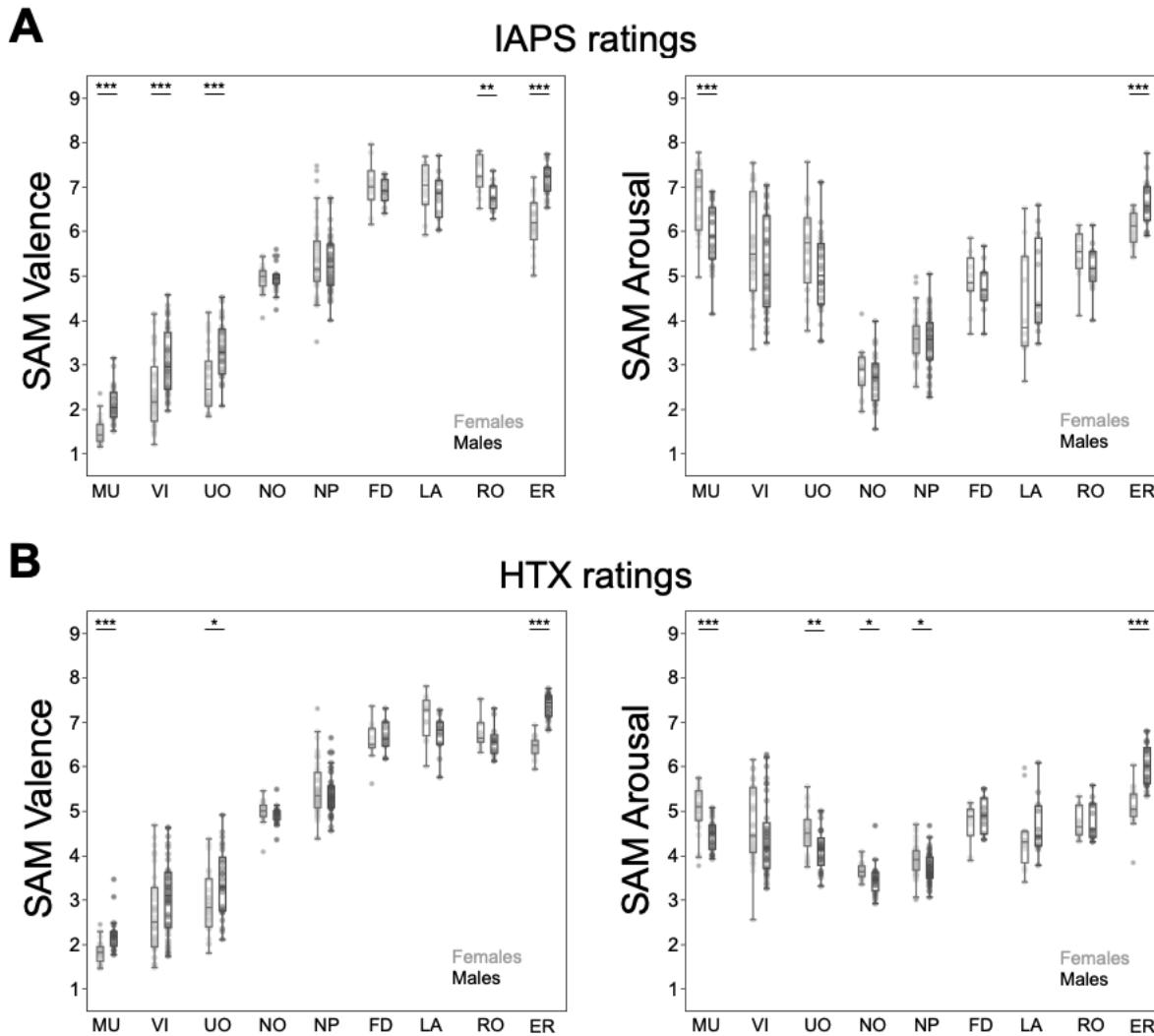
### Electrophysiological normative responses to emotional, neutral, and cigarette-related images

Francesco Versace, Nicola Sambuco, Menton M. Deweese, Paul M. Cinciripini

**Figure S1.** Age distribution (count) of the participants in the three different studies considered in the current analyses.



**Figure S2.** Valence and arousal ratings across the different categories, separately reported for males and females, in both IAPS ratings and HTX ratings.



*Note.* MU: Mutilations; VI: Violence; UO: Unpleasant Objects; NO: Neutral Objects; NP: Neutral People; FD: Food; LA: Landscapes; RO: Romance; ER: Erotica. Results of between-group comparison significant at \*\*\* $p < .001$ , \*\* $p < .01$ , \* $p < .05$ .

**Table S1.** Number of pictures used for each category in the primary analyses reported in the manuscript, assessing patterns of SAM ratings (valence and arousal) and LPP for the whole-sample analysis, the analysis assessing gender differences (males/females), and the analysis on smoking status (smokers/non-smokers).

Category	Number of Exemplars	
	Whole-sample and males/females	Smokers/Non-Smokers
Cigarette	-	38
Erotica	26	19
Romance	25	19
Landscapes	12	-
Food	27	16
Neutral People	49	22
Neutral Objects	25	16
Unpleasant Objects	26	18
Violence	37	16
Mutilations	24	18
<b>Total</b>	<b>251</b>	<b>182</b>

**Table S2.** Tukey HSD pairwise comparisons ( $p < .05$ ) for the LPP, separately reported for males and females. *Note: Categories which share at least one letter do not significantly differ.*

Category	Late Positive Potential (LPP)				
	Males			Females	
Erotica	A			A	
Romance	B			B	
Pleasant Objects			E		D
Food	B	C	D		C D
Neutral People		C	D	E	D
Neutral Objects			D	E	D
Unpleasant Objects	B	C	D		B C D
Violence	B	C			B C
Mutilations	A			A	

**Table S3.** Tukey HSD pairwise comparisons ( $p < .05$ ) for SAM rating of valence and arousal separately reported for smokers and non-smokers. *Note: Categories which share at least one letter do not significantly differ.*

Category	SAM ratings					
	Valence		Arousal			
	Non-Smokers	Smokers	Non-Smokers	Smokers		
Cigarette	C	C	D	C		
Erotica	A	A	A	A		
Romance	A	B	B	B		
Food	A	A B	B	B		
Neutral People	B	C	D	D		D
Neutral Objects	B	C	D	D		D
Unpleasant Objects	C D	D	C	D		C
Violence	D	D	B	D		C
Mutilations	E	E	B	B		

**Table S4.** Tukey HSD pairwise comparisons ( $p < .05$ ) for LPP amplitude in non-smokers and smokers. *Note: Categories which share at least one letter do not significantly differ.*

Category	LPP			
	Non-Smokers		Smokers	
Cigarette	B	C		B
Erotica	A		A	
Romance	B		B	
Food	B	C	D	B C
Neural People		C	D	C
Neutral Objects		C	D	C
Unpleasant Objects	B	C		B C
Violence			D	C
Mutilations	A		A	

## Supplementary Discussion

As mentioned in the primary text, we observed a compressed range of arousal ratings in the HTX sample compared to the IAPS normative ratings (see Figure 1C): While mean IAPS ratings of arousal ranged from 2 to 7, in the HTX sample they ranged from 3 to 6. Many participants in our studies were significantly older than the participants commonly enrolled in psychology experiments (including the experiments in which IAPS pictures were originally rated). Hence, it is possible that older individuals rate high arousing images as less arousing than what younger individuals do. It is also possible that an increase in daily consumption of digital media may have dampened the raters' perceived "shock value" of the most arousing images. With individuals spending upwards of 6 hours per day consuming digital media and nearly doubling time spent online in the past 15 years, it is conceivable that more frequent exposure to highly arousing content may reduce present day self-reported ratings of emotional arousal. In the laboratory, Codispoti et al. (2006) showed that arousal ratings decreased following repeated picture presentation, but that the most arousing picture contents (erotica, mutilations) remained more arousing than neutral. Yet, while these factors might explain the lower arousal ratings attributed to erotica and mutilations, they do not explain the higher arousal ratings attributed to neutral images.

In fact, we are inclined to attribute the differences in self-reported arousal observed between our sample and the IAPS to difficulties in interpreting the meaning of the arousal scale. In the laboratory, we noticed that participants were more confused by the arousal scale than by the valence scale and that most questions directed to the research assistants during the practice trials were about the arousal scale. Visual inspection of the individual responses to the arousal scale highlighted the presence of two peculiar response patterns that were shared by several participants. It is important to consider the layout of the electronic version of the SAM: valence and arousal scales are presented sequentially, with the rating scales moving from left (most pleasant, most arousing) to right (most unpleasant, least arousing). In the first response pattern that we observed, some individuals selected on the Likert scales the same numerical value for both valence and arousal. In the second response pattern, individuals used the full range of values on the valence scale, but consistently reported the same midline value on the arousal scale for all the pictures. The first response pattern, then, reduces the arousal ratings of the most unpleasant images and inflates that of the neutral ones, whereas the second response pattern reduces the arousal rating of both pleasant and unpleasant images and inflates the arousal ratings of neutral images. When averaged with the other ratings to obtain the mean arousal values of individual pictures, these peculiar response patterns reduce the range of arousal ratings (see Figure 1C). Even though we cannot exclude that some individuals might find very unpleasant images also not arousing and others might find neutral images mildly arousing, the frequency of these two response patterns led us to conclude that some individuals had difficulties understanding the meaning of the arousal scale and/or decided not to comply with the instructions.

Despite the potential confusion in a subset of the sample, the LPP results (which are not

under volitional control), are not “compressed” (see Figure 2). This provides further justification of the need to integrate an objective neuroaffective measure of emotional engagement with the self-report data when selecting stimuli in experiments designed to engage appetitive and defensive motivational systems.

## Individual Ratings

**Note:** All=ratings from the whole sample, ♀= females only, ♂= males only, NS= nonsmokers only, SM= smokers only.

	ID	Content	description	Source	Valence	Valence	Valence	Arousal	Arousal	Arousal	LPP	LPP	LPP	
					Catalog	N	M	SD	N	M	SD	N	M	SD
All	3168 MU	Mutilation	IAPS		49	2.31	1.86		48	4	2.51	56	3.49	3.56
All	3350 MU	Infant	IAPS		49	2.84	1.92		48	4.1	2.24	56	3.12	4.1
All	9253 MU	Mutilation	IAPS		49	2.33	1.49		49	4.37	2.47	56	1.32	3.81
All	3102 MU	BurnVictim	IAPS		62	1.92	1.44		62	3.98	2.49	60	3.87	5.92
All	3101 MU	BurntFace	IAPS		68	2.09	1.4		67	4.79	2.61	68	2.44	6.07
All	3300 MU	DisabledChild	IAPS		68	2.93	1.61		68	4.41	2.01	68	2.48	4.66
All	3225 MU	Mutilation	IAPS		101	2.21	1.58		101	4.64	2.55	217	3.92	6.19
All	3140 MU	DeadBody	IAPS		111	2.06	1.44		112	4.7	2.49	222	3.14	6.61
All	9420 MU	Soldier	IAPS		233	2.01	1.56		233	4.46	2.63	374	0.7	6.22
All	9433 MU	DeadMan	IAPS		234	2.08	1.59		233	4.81	2.76	382	0.97	5.84
All	3110 MU	BurnVictim	IAPS		267	1.83	1.45		267	5.02	2.88	529	2.49	6.36
All	3080 MU	Mutilation	IAPS		271	1.82	1.42		270	4.84	2.78	527	2.36	6.05
All	3120 MU	DeadBody	IAPS		271	2.03	1.51		271	4.63	2.68	529	3.58	6.18
All	3051 MU	Mutilation	IAPS		272	2.01	1.58		273	4.58	2.67	527	4.35	6.48
All	3069 MU	Mutilation	IAPS		279	1.78	1.41		279	5.31	3.02	532	4.07	6.17
All	3170 MU	BabyTumor	IAPS		280	1.7	1.42		280	4.93	2.83	533	3.95	6.72
All	3053 MU	BurnVictim	IAPS		286	1.65	1.44		287	5.29	2.94	534	3.34	6.79
All	3130 MU	Mutilation	IAPS		286	2.01	1.6		285	5.1	2.78	537	3.13	5.98
All	3261 MU	Tumor	IAPS		286	1.64	1.33		283	5.27	2.97	540	2.98	6.86
All	3068 MU	Mutilation	IAPS		289	1.8	1.6		287	5.24	2.85	543	2.96	6.77
All	3000 MU	Mutilation	IAPS		290	1.78	1.51		288	5.09	2.93	540	4.11	7.21
All	3060 MU	Mutilation	IAPS		291	1.98	1.54		291	4.92	2.78	533	3.3	6.59
All	3100 MU	BurnVictim	IAPS		292	1.91	1.45		292	4.45	2.6	533	3.54	6.33
All	3030 MU	Mutilation	IAPS		293	2.04	1.4		292	4.83	2.59	537	3.77	5.71
All	2141 VI	GrievingFem	IAPS		49	2.94	1.55		49	4.16	2.04	56	-0.3	4.21
All	2276 VI	Girl	IAPS		49	3.51	1.61		49	3.84	1.9	56	1.53	4.85
All	2491 VI	SickMan	IAPS		49	4.41	1.34		49	3.67	1.94	56	-0.4	4.15

All	6313 VI	Attack	IAPS	50	1.88	1.41	50	5.44	2.51	161	3.35	4.46
All	6360 VI	Attack	IAPS	50	2.1	1.47	50	5.18	2.51	161	2.56	5.45
All	6231 VI	Aimedgun	IAPS	50	2.52	1.72	50	5.18	2.32	161	2.65	5.59
All	6540 VI	Attack	IAPS	51	1.84	1.24	51	5.57	2.63	160	2.74	5.87
All	6242 VI	Gang	IAPS	51	2.69	1.86	51	5.18	2.39	161	2.15	7.83
All	6550 VI	Attack	IAPS	51	1.65	1.21	51	5.43	2.58	160	4.23	5.56
All	3500 VI	Attack	IAPS	52	2	1.4	52	5.75	2.44	160	1.25	6.1
All	6510 VI	Attack	IAPS	52	1.98	1.46	52	5.79	2.57	160	3.46	7.15
All	6571 VI	CarTheft	IAPS	52	2.27	1.55	52	5.56	2.47	160	2.87	5.49
All	2811 VI	gun	IAPS	53	1.92	1.38	53	5.87	2.47	160	2.62	4.52
All	3530 VI	Attack	IAPS	59	2.15	1.32	59	5.71	2.21	161	0.97	5.7
All	6350 VI	Attack	IAPS	59	2.03	1.3	59	5.81	2.43	160	2.66	5.84
All	6315 VI	BeatenFem	IAPS	59	2.12	1.3	59	5.32	2.31	161	2.53	6.28
All	9265 VI	HungMan	IAPS	62	2.16	1.55	62	4.44	2.4	60	3.16	5.12
All	2399 VI	Woman	IAPS	62	3.95	1.25	62	3.11	1.68	61	0.94	6.11
All	9410 VI	Soldier	IAPS	68	1.63	1.14	65	5.57	2.73	68	4.18	6.46
All	2095 VI	Toddler	IAPS	68	1.84	1.25	67	4.99	2.64	68	3.11	4.32
All	9190 VI	Woman	IAPS	68	4.12	1.34	67	3.57	1.69	68	1.92	8.09
All	9421 VI	Soldier	IAPS	216	2.71	1.73	216	4.51	2.42	369	1.12	7.14
All	2900 VI	CryingBoy	IAPS	216	2.99	1.65	216	4.03	2.14	367	0.92	7.29
All	2590 VI	ElderlyWoman	IAPS	216	4.53	1.76	216	4.05	1.9	370	0.26	6.09
All	2703 VI	SadChildren	IAPS	220	2.21	1.63	220	4.19	2.54	369	1.01	5.93
All	9530 VI	Boys	IAPS	220	3.24	1.86	220	3.77	2.03	367	0.17	6.13
All	2800 VI	SadChild	IAPS	228	2.2	1.68	228	4.38	2.57	369	1.75	5.35
All	9926 VI	Flood	IAPS	229	3.44	2.07	229	4.52	2.35	373	1.07	6.8
All	2520 VI	ElderlyMan	IAPS	229	4.53	1.78	229	3.66	2.01	373	2.29	4.93
All	2205 VI	Hospital	IAPS	232	2.74	1.89	232	3.93	2.17	374	0.7	6.17
All	9429 VI	Assault	IAPS	233	3.03	1.75	233	4.27	2.31	374	0.53	6.31
All	2810 VI	Boy	IAPS	233	4.12	1.63	233	4.02	2.07	374	0.42	5.5
All	9520 VI	Kids	IAPS	235	2.94	1.78	234	4.41	2.34	381	0.66	5.97
All	2700 VI	Woman	IAPS	235	3.26	1.61	233	4.03	2.01	379	0.5	5.9
All	2455 VI	SadGirls	IAPS	239	3.82	1.86	237	3.76	1.82	379	0.09	6.77

All	2490 VI	Man	IAPS	239	3.49	1.76	239	3.79	1.89	380	0.08	6.11
All	3280 VI	DentalExam	IAPS	239	3.78	1.8	238	4.16	2.09	380	0.73	7.35
All	9620 UO	Shipwreck	IAPS	48	3.58	1.8	49	4.51	2.42	56	1.28	4.71
All	9390 UO	Dishes	IAPS	49	3.96	1.68	48	3.94	2	56	-2.2	4.82
All	9295 UO	garbage	IAPS	50	2.12	1.47	50	4.38	2.2	159	0.33	5.81
All	9291 UO	garbage	IAPS	58	2.71	1.76	58	4.5	2.12	161	0.58	7.52
All	6410 UO	Aimedgun	IAPS	62	4.69	1.56	62	4.1	1.92	61	2.17	4.83
All	6190 UO	Aimedgun	IAPS	62	3.79	1.75	62	4.31	2.21	61	2.46	5.53
All	6000 UO	Prison	IAPS	67	4.22	1.46	67	3.78	2.04	68	-0.1	4.21
All	6200 UO	Aimedgun	IAPS	68	3.31	1.75	67	5.01	2.35	68	1.87	5.63
All	6210 UO	Aimedgun	IAPS	99	3.73	1.94	99	4.71	2.12	217	0.65	6.16
All	9010 UO	BarbedWire	IAPS	102	4.38	1.36	102	4	1.79	217	0.66	6.38
All	9901 UO	CarAccident	IAPS	233	2.64	1.77	233	4.21	2.39	371	0.85	6.47
All	9560 UO	DuckInOil	IAPS	266	2.44	1.74	265	4.43	2.45	529	2.31	5.88
All	9912 UO	Firefighter	IAPS	266	2.96	1.74	266	4.43	2.27	526	1.38	5.92
All	6260 UO	Aimedgun	IAPS	267	3.09	2.06	267	5.12	2.5	529	3.11	5.77
All	9300 UO	Dirty	IAPS	270	2.13	1.69	271	4.2	2.72	528	1.41	5.4
All	9301 UO	Toilet	IAPS	280	1.95	1.46	280	4.53	2.88	534	3.1	6.03
All	9110 UO	Puddle	IAPS	282	3.55	1.62	282	3.7	2	534	1.9	6.25
All	9290 UO	Garbage	IAPS	284	2.96	1.74	284	3.71	2.16	534	0.02	5.72
All	6020 UO	ElectricChair	IAPS	284	3.06	1.91	284	3.98	2.33	533	1.43	5
All	9600 UO	Ship	IAPS	285	2.58	1.76	285	4.47	2.55	535	1.56	6.52
All	9373 UO	Garbage	IAPS	287	3.27	1.7	286	4.09	2.27	542	0.8	5.4
All	9320 UO	Vomit	IAPS	292	2.3	1.65	291	4.08	2.58	542	1.52	6.69
All	9911 UO	CarAccident	IAPS	293	2.56	1.75	291	4.84	2.53	542	2.05	6.04
All	9621 UO	Ship	IAPS	293	3.46	1.75	292	4.7	2.21	542	0.43	6.87
All	9090 UO	Exhaust	IAPS	294	3.66	1.73	293	3.88	2.08	542	1.33	6.74
All	6230 UO	Aimedgun	IAPS	297	2.96	1.94	296	5.19	2.66	538	2.79	5.69
All	7050 NO	hairdryer	IAPS	15	5	0	15	4.2	1.52	161	0.69	4.46
All	50006 NO	truck	FVLAB	49	5.14	0.87	49	3.41	1.91	56	1.51	6.23
All	7090 NO	Book	IAPS	49	5.47	1.04	49	3.78	2.15	56	-0.1	4.35
All	7080 NO	Fork	IAPS	49	5.08	1.22	49	3.33	2.05	56	1.19	4.23

All	7020 NO	Fan	IAPS	61	4.93	1.05	62	3.21	1.86	61	0.57	5.07
All	7140 NO	Bus	IAPS	62	4.95	0.73	62	3.45	1.9	60	0.24	6.42
All	7110 NO	Hammer	IAPS	68	4.76	0.9	67	3.27	1.99	68	0.23	6.44
All	7130 NO	Truck	IAPS	68	5	1.02	67	3.16	1.86	67	1.4	5.72
All	7038 NO	Shoes	IAPS	68	4.91	1.29	67	3.42	2.22	68	1.14	4.79
All	7059 NO	Keyring	IAPS	231	4.87	1.1	231	3.73	1.8	529	0.98	5.28
All	7010 NO	Basket	IAPS	232	4.95	1.06	232	3.59	1.81	530	0.48	5.2
All	7041 NO	Baskets	IAPS	232	4.81	1.31	231	3.55	1.9	530	1.19	6.11
All	7004 NO	Spoon	IAPS	233	5.06	1.44	233	3.42	2.04	373	-0.5	6.87
All	7054 NO	Glass	IAPS	236	4.21	1.52	236	3.61	2.02	529	0.77	6.32
All	7030 NO	Iron	IAPS	236	4.75	1.34	235	3.66	2.06	528	1.37	6.12
All	7055 NO	Lightbulb	IAPS	244	4.91	1.11	245	3.53	1.95	534	0.74	5.74
All	7034 NO	Hammer	IAPS	245	4.89	1.17	245	3.7	1.91	533	0.64	5.85
All	7002 NO	Towel	IAPS	245	5	1.14	245	3.64	1.85	531	-0.2	6.18
All	7009 NO	Mug	IAPS	248	5.02	1.31	248	3.5	2.06	534	0.88	7.7
All	7056 NO	Tool	IAPS	248	4.98	1.19	248	3.54	1.96	534	2.35	6.66
All	7053 NO	Candlestick	IAPS	249	5.08	1.26	250	3.66	1.93	541	1.26	6.11
All	7006 NO	Bowl	IAPS	250	4.85	1.17	249	3.44	1.97	542	0.49	5.94
All	7040 NO	DustPan	IAPS	253	4.82	1.27	253	3.33	1.97	543	0.82	6.73
All	7000 NO	RollingPin	IAPS	254	5.05	1.19	254	3.44	2.02	542	-0	5.78
All	7052 NO	Clothespins	IAPS	254	5.18	1.43	253	3.55	2.12	540	1.27	5.23
All	2597 NP	Market	IAPS	48	5.27	1.28	49	3.73	1.96	368	-0.1	6.88
All	2104 NP	NeuWoman	IAPS	49	5	0.94	49	3.67	1.81	56	-0.9	3.46
All	2230 NP	SadFace	IAPS	49	5.02	1.16	49	3.29	2	56	0.05	4.24
All	2493 NP	NeutralMale	IAPS	49	5.18	0.95	49	3.57	1.91	369	0.94	5.44
All	2512 NP	Man	IAPS	49	5.39	1.11	49	3.33	1.92	56	1.4	5.44
All	2397 NP	Men	IAPS	49	5.08	1.29	49	3.53	1.95	56	-0.1	4.76
All	2850 NP	Tourist	IAPS	49	5.57	1.19	49	3.84	2	367	-0	5.22
All	2499 NP	NeutralMale	IAPS	49	5.2	1.38	49	3.37	1.92	56	2.06	5.46
All	2485 NP	Man	IAPS	49	5.53	1.24	49	3.82	1.81	56	0.8	3.92
All	2593 NP	Men	IAPS	49	5.88	1.2	49	3.88	2.06	370	-0.2	4.81
All	2510 NP	ElderlyWoman	IAPS	49	6.69	1.49	49	3.73	2.23	56	0.96	3.82

All	2190 NP	Man	IAPS	61	5.18	1.02	62	3.4	1.84	61	0.93	6.1
All	52008 NP	man face	FVLAB	62	4.98	1.31	62	3.42	2.04	61	0	4.89
All	2221 NP	Judge	IAPS	62	4.5	1.11	62	3.73	1.87	372	2	5.46
All	2830 NP	Woman	IAPS	62	5.61	1.35	62	4.06	2.15	61	1.44	5.11
All	2579 NP	Bakers	IAPS	62	5.37	1.15	62	3.82	1.99	374	0.45	5.41
All	2513 NP	Woman	IAPS	62	5.6	1.29	62	3.29	1.96	61	1.39	4.01
All	2600 NP	Beer	IAPS	62	5.6	1.63	62	3.74	2.1	61	1.66	8.65
All	2358 NP	Family	IAPS	62	5.81	1.59	62	3.92	2.33	61	0.63	5.53
All	2598 NP	Family	IAPS	62	6.65	1.43	61	4.26	2.21	60	0.72	5.04
All	2235 NP	Butcher	IAPS	67	6.04	1.5	67	4.16	1.94	381	0.01	8.68
All	2594 NP	City	IAPS	67	6.13	1.48	66	4.21	2.17	68	0.51	6.98
All	2570 NP	Man	IAPS	68	5.26	1.17	68	3.59	1.81	68	0.83	5.9
All	2220 NP	MaleFace	IAPS	68	5.12	1.24	67	3.69	2.02	379	2.36	5.27
All	2495 NP	Man	IAPS	68	5.21	1.07	67	3.3	1.85	68	1.46	4.06
All	2372 NP	Woman	IAPS	68	5.59	1.54	68	3.96	2.15	381	1.71	6.2
All	2515 NP	Harvest	IAPS	68	6.46	1.66	66	4.65	2.3	379	0.8	6.22
All	2595 NP	Women	IAPS	99	5.37	1.17	99	3.9	1.88	530	1.12	6.56
All	2630 NP	Male	IAPS	101	5.26	1.23	100	3.81	1.86	528	-0.3	7.33
All	2383 NP	Secretary	IAPS	107	5.21	0.95	107	3.73	1.97	528	1.11	6.59
All	2500 NP	Man	IAPS	112	5.63	1.34	112	3.79	1.82	534	1.72	6.9
All	7550 NP	Office	IAPS	113	5.2	0.9	113	3.85	1.86	530	0.93	6.03
All	2441 NP	NeutralGirl	IAPS	121	5.09	1.44	120	3.78	2.08	540	1.64	6.34
All	2107 NP	Male	IAPS	220	5.33	1.32	220	3.81	1.99	470	1.19	5.81
All	52007 NP	man	FVLAB	229	5.07	1.25	228	3.64	1.95	373	0.75	5.51
All	2200 NP	NeutFace	IAPS	229	5.01	1.23	229	3.61	1.95	375	0.71	6.47
All	2214 NP	NeutMan	IAPS	229	5.02	1.35	229	3.74	2.02	375	0.52	6.39
All	2312 NP	Mother	IAPS	235	4.51	1.95	233	4.04	2	380	1.41	6.21
All	52006 NP	man	FVLAB	239	4.71	1.31	238	3.4	1.89	381	0.49	7.01
All	2215 NP	NeutMan	IAPS	239	4.98	1.19	238	3.54	1.93	380	0.5	5.64
All	2210 NP	NeutFace	IAPS	271	4.9	1.35	271	3.56	1.97	530	0.46	5.14
All	2393 NP	Factoryworker	IAPS	278	5.33	1.38	278	3.99	2.04	527	0.91	6.43
All	9070 NP	Boy	IAPS	284	5.07	1.9	284	3.9	1.97	543	2.34	6.42

All	2435 NP	Mom/Son	IAPS	285	5.86	1.57	284	4.23	2.03	540	0.19	5.53
All	2396 NP	Couple	IAPS	286	5.15	1.4	285	3.8	2.01	542	1.21	5.87
All	2102 NP	NeuMan	IAPS	290	5.31	1.38	289	3.6	2.05	542	1.73	6.29
All	2575 NP	Propeller	IAPS	290	5.18	1.26	290	3.51	1.98	535	0.83	4.94
All	2191 NP	Farmer	IAPS	292	6.12	1.58	292	3.96	2.19	534	0.13	5.37
All	2305 NP	Woman	IAPS	292	5.51	1.53	291	4.02	2.12	543	1.2	5.72
All	7480 FD	Pasta	IAPS	49	6.22	1.58	49	4.27	2.28	56	1.12	5.04
All	7482 FD	Lamb	IAPS	61	6.56	1.66	61	4.62	2.4	61	1.31	4.11
All	7270 FD	IceCream	IAPS	61	6.26	1.56	62	4.47	2.13	60	0.66	6.23
All	7450 FD	Cheeseburger	IAPS	62	6.29	1.46	62	4.23	2.27	61	0.75	5.58
All	7485 FD	lamb and rice	IAPS	67	6.49	1.64	68	4.71	1.99	68	1.05	5.14
All	42058 FD	hamburger	FVLAB	87	6.36	2.11	87	4.97	2.04	161	2.13	5.16
All	42056 FD	hot dogs	FVLAB	88	5.39	2.11	88	4.52	1.99	160	1.6	5.53
All	42057 FD	chicken wings	FVLAB	88	6.36	1.78	88	4.97	2.2	161	0.57	6.89
All	37 FD	french fries	OLAF	93	6.2	1.94	93	4.82	2.2	160	-0.2	6.78
All	655 FD	pizza	OLAF	93	6.22	1.83	93	4.74	2.12	161	1.99	7.76
All	42055 FD	hamburger	FVLAB	93	6.8	1.79	93	5.25	1.91	161	1.73	5.52
All	22 FD	fried egg	OLAF	171	5.3	2.3	171	4.13	2.36	312	0.92	7.45
All	6054 FD	pizzaNONIAPS	OLAF	171	5.63	2.33	171	4.37	2.49	312	0.37	8.57
All	96 FD	candies	OLAF	171	5.75	1.79	171	4.14	2.28	312	0.16	6.7
All	7460 FD	FrenchFries	IAPS	216	6.63	1.77	216	5.04	2.38	367	1.89	6.72
All	7350 FD	Pizza	IAPS	234	6.87	1.74	234	5.24	2.31	380	1.43	5.32
All	7340 FD	IceCream	IAPS	239	7.18	1.67	238	4.99	2.59	382	1.29	6.32
All	75 FD	french fries	OLAF	255	6.75	1.95	255	5.44	2.37	473	0.55	6.17
All	40060 FD	pastries	FVLAB	258	6.7	1.77	258	4.89	2.33	473	1.3	5.61
All	150 FD	pastries	OLAF	260	6.76	1.82	260	5.14	2.24	473	1.18	6.12
All	40062 FD	pastries	FVLAB	264	6.7	1.79	264	4.84	2.47	472	1.33	6.6
All	40061 FD	icecream	FVLAB	264	6.94	1.71	264	4.83	2.51	473	1.92	5.31
All	42067 FD	burger	FVLAB	265	5.9	2.06	265	4.73	2.2	472	1.14	5.16
All	7330 FD	IceCream	IAPS	303	7.11	1.79	304	5.3	2.47	528	1.39	6.1
All	7410 FD	Candy	IAPS	309	6.46	1.66	309	4.85	2.22	529	1.65	6.8
All	7430 FD	Candy	IAPS	317	6.46	1.65	316	4.86	2.26	529	1.33	6.75

All	7470 FD	Pancakes	IAPS	323	6.91	1.72	322	5.25	2.16	538	0.92	5.24
All	5711 LA	Field	IAPS	49	6.67	1.83	49	3.76	2.24	56	-0.3	5.94
All	5629 LA	Hiker	IAPS	49	6.65	1.52	49	4.82	2.56	56	1.1	4.22
All	5631 LA	Mountains	IAPS	49	7.14	1.4	49	4.18	2.58	56	-0.2	5.07
All	5700 LA	Mountains	IAPS	49	6.8	1.62	49	4.49	2.42	56	0.61	4.34
All	5780 LA	Nature	IAPS	59	7.17	1.34	61	4.31	2.68	61	0.1	4.56
All	5661 LA	Cave	IAPS	62	6.31	1.63	62	4.16	2.08	61	0.68	4.63
All	5628 LA	Mountains	IAPS	62	7.02	1.52	62	5.35	2.37	60	1.41	7.04
All	5781 LA	Lake	IAPS	62	7.1	1.46	62	3.94	2.44	61	-0.4	5.05
All	5250 LA	Nature	IAPS	68	5.87	1.61	67	4.28	2.21	68	0.47	4.45
All	5626 LA	HangGlider	IAPS	68	7.26	1.61	66	6.03	2.56	67	0.92	5.95
All	5764 LA	Field	IAPS	68	7.19	1.43	67	4.34	2.47	68	-1.1	5.37
All	5660 LA	Mountains	IAPS	68	7.1	1.45	67	5.01	2.5	68	1.48	6.53
All	44024 RO	couple on beach	FVLAB	48	6.42	1.49	49	4.43	2.01	56	2.87	8.52
All	4645 RO	EroticCouple	IAPS	61	6.28	1.55	61	4.48	2.34	60	2.33	4.64
All	44023 RO	people kissing	FVLAB	62	5.98	1.41	62	4.32	2.1	60	3.08	4.37
All	44022 RO	people kissing	FVLAB	62	6.11	1.36	62	4.18	2.22	61	4.1	5.91
All	4623 RO	Romance	IAPS	62	6.74	1.49	62	5.16	2.54	61	3.03	5.91
All	4626 RO	Wedding	IAPS	68	7.4	1.58	66	5.24	2.47	68	2.59	5.92
All	4599 RO	Romance	IAPS	100	6.63	1.47	100	4.65	2.21	217	2.48	6.6
All	2208 RO	Bride	IAPS	112	6.77	1.69	112	4.84	2.18	222	1.08	6.81
All	4610 RO	Romance	IAPS	120	6.45	1.6	119	4.31	2.45	228	1.98	5.09
All	4628 RO	Wedding	IAPS	171	7.35	1.83	171	5.25	2.59	310	0.8	5.73
All	44021 RO	people kissing	FVLAB	215	6.39	1.77	215	4.81	2.33	369	1.42	6.25
All	44015 RO	people kissing	FVLAB	235	6.25	1.81	234	4.71	2.34	382	1.22	5.05
All	4625 RO	Couple	IAPS	266	6.69	1.7	266	4.95	2.42	528	1.42	7.1
All	4641 RO	Romance	IAPS	269	6.66	1.64	269	4.51	2.36	527	2.92	6.69
All	44012 RO	wedding	FVLAB	270	7.24	1.76	270	5.19	2.57	527	1.32	6.24
All	4640 RO	Romance	IAPS	275	6.23	1.66	274	4.43	2.2	530	1.48	5.67
All	44006 RO	people kissing	FVLAB	279	6.45	1.7	279	4.59	2.25	529	2.62	5.61
All	4700 RO	Couple	IAPS	282	6.4	1.67	282	4.37	2.28	535	0.61	6.63
All	44009 RO	people kissing	FVLAB	284	6.44	1.79	284	4.6	2.24	534	2.51	7.06

All	44011 RO	romantic couple	FVLAB	284	6.62	1.6	285	4.41	2.32	535	2.56	5.94
All	4643 RO	EroticCouple	IAPS	286	6.48	1.73	285	5.14	2.26	540	2.27	6.68
All	44007 RO	romantic couple	FVLAB	288	6.5	1.66	288	4.83	2.34	542	0.81	5.6
All	44008 RO	people kissing	FVLAB	289	6.72	1.77	287	5	2.39	539	3.2	6.03
All	44010 RO	people kissing	FVLAB	293	6.59	1.68	291	5.06	2.36	539	3.02	5.69
All	4624 RO	Couple	IAPS	297	6.53	1.6	297	4.49	2.29	541	1.99	6.19
All	4649 ER	EroticCouple	IAPS	49	6.98	1.52	48	5.6	2.59	56	3.08	4.2
All	4689 ER	EroticCouple	IAPS	49	6.65	1.56	49	5	2.45	56	2.89	5.73
All	4694 ER	EroticCouple	IAPS	61	6.98	1.58	61	5.25	2.51	61	4.4	5.59
All	4647 ER	EroticCouple	IAPS	62	6.95	1.87	62	5.63	2.51	61	3.67	6.57
All	4666 ER	EroticCouple	IAPS	67	6.97	1.78	66	6.09	2.31	68	3.78	6.23
All	4676 ER	EroticCouple	IAPS	67	6.82	1.75	65	5.66	2.47	68	4.42	7.16
All	4810 ER	EroticCouple	IAPS	68	7.1	1.91	67	6.33	2.52	68	5.43	5.98
All	4653 ER	EroticCouple	IAPS	114	6.96	1.49	114	5.18	2.38	222	2.15	5.86
All	4650 ER	EroticCouple	IAPS	126	6.3	1.67	125	5.04	2.27	227	2.05	5.76
All	4660 ER	EroticCouple	IAPS	127	6.5	1.65	127	5.26	2.22	229	3.01	6.38
All	4783 ER	EroticCouple	IAPS	171	7.09	1.65	171	5.42	2.63	311	3.67	7.61
All	46017 ER	EroticCouple	FVLAB	171	7.09	1.88	171	5.59	2.63	312	4	5.88
All	4695 ER	EroticCouple	IAPS	216	7.17	1.67	216	5.75	2.65	369	3.26	6.17
All	4690 ER	EroticCouple	IAPS	267	6.84	1.9	267	5.59	2.53	530	3.57	5.88
All	4691 ER	EroticCouple	IAPS	271	7.05	1.81	271	5.66	2.68	530	3.32	5.83
All	4659 ER	EroticCouple	IAPS	273	7.01	1.79	272	5.67	2.64	527	2.8	5.55
All	4669 ER	EroticCouple	IAPS	274	7.07	1.78	274	5.92	2.42	529	2.76	6.46
All	4698 ER	EroticCouple	IAPS	275	6.82	1.75	275	5.5	2.42	531	3.85	6.93
All	4658 ER	EroticCouple	IAPS	278	7.19	1.89	279	5.95	2.59	534	4.06	5.93
All	4680 ER	EroticCouple	IAPS	279	7.05	1.78	279	5.96	2.48	533	3.74	6.66
All	4693 ER	EroticCouple	IAPS	281	7.04	1.83	281	5.87	2.54	535	4.13	5.71
All	4687 ER	EroticCouple	IAPS	282	6.91	1.84	283	5.32	2.56	534	2.35	7
All	4800 ER	EroticCouple	IAPS	283	7.08	1.78	283	6.14	2.46	541	3.4	6.86
All	4677 ER	EroticCouple	IAPS	285	6.94	1.71	285	5.26	2.59	533	3.96	5.86
All	4696 ER	EroticCouple	IAPS	289	6.76	1.84	288	5.31	2.44	538	1.62	6.31
All	4611 ER	EroticCouple	IAPS	290	6.8	1.76	289	5.1	2.5	539	4.01	5.69

All	Sisis0921	CI	person smoking	ISIS	47	4.6	1.72	49	3.31	1.78	56	2.55	3.45
All	Sisis0881	CI	cigarette	ISIS	48	4.46	1.54	49	3.27	1.9	56	0.55	4.75
All	Cqr433	CI	man smoking	Carter02	48	4.98	1.88	49	3.67	2.01	56	-0.1	4.64
All	Sisis118r	CI	man smoking	ISIS	48	4.52	1.62	48	3.65	1.97	56	2	4.88
All	Sisis034r	CI	cigarette	ISIS	49	4.49	1.72	49	3.39	2.05	56	2.24	4.18
All	Cbc411	CI	man smoking	Carter01	49	4.39	1.75	49	3.18	1.92	56	2.61	4.56
All	Sisis115l	CI	man smoking	ISIS	49	4.37	1.68	49	3.49	1.92	56	2.02	5.42
All	Sisis116r	CI	man smoking	ISIS	49	4.33	1.59	49	3.27	1.9	56	2.48	4.27
All	Sisis120r	CI	people smoking	ISIS	49	4.39	1.85	49	3.14	1.8	56	1.47	4.84
All	Sisis0221	CI	man smoking	ISIS	49	4.47	1.56	48	3.21	1.98	370	1.9	5.71
All	24007	CI	cigarette	FVLAB	61	4.41	1.35	61	3.44	1.64	61	1.76	4.35
All	Sisis099l	CI	man smoking	ISIS	61	4.64	1.4	62	3.69	2.13	61	1.92	4.51
All	Sisis103l	CI	person smoking	ISIS	61	4.72	1.48	62	3.81	2.11	61	1.75	5.15
All	Sisis007l	CI	man with cigarette	ISIS	61	4.74	1.58	62	3.92	2.03	370	2.16	5.57
All	Sisis073r	CI	women smoking	ISIS	61	4.75	1.69	62	3.79	1.8	372	0.85	6.6
All	Sisis017l	CI	man smoking	ISIS	61	4.62	1.58	60	3.57	2.24	373	1.44	6.43
All	24011	CI	cigarette	FVLAB	62	4.82	1.6	62	3.61	2.03	61	1.27	3.71
All	24013	CI	cigarette	FVLAB	62	4.63	1.46	62	3.82	1.94	61	1	4.84
All	Sisis111r	CI	cigarette	ISIS	62	4.69	1.48	62	3.94	2.16	61	1.26	5.32
All	Sisis016r	CI	man smoking	ISIS	62	4.61	1.53	61	3.9	2.03	60	1.71	5.55
All	Cbc412	CI	two people talking	Carter01	62	4.98	1.57	62	4.03	1.99	61	1.06	5.12
All	Sisis063r	CI	person smoking	ISIS	62	4.89	1.42	62	3.95	1.97	61	2.11	5.51
All	Sisis031l	CI	man smoking	ISIS	62	4.73	1.58	62	3.63	1.96	374	0.98	6.8
All	Sisis097l	CI	person smoking	ISIS	66	4.33	1.81	65	3.48	2.02	68	0.73	5.46
All	Sisis004l	CI	man smoking	ISIS	67	4.3	1.78	67	3.76	2.02	381	2.19	4.71
All	24000	CI	cigarette	FVLAB	68	4.06	1.65	67	3.52	1.93	68	1.52	3.87
All	Sisis020r	CI	cigarette	ISIS	68	4.41	1.9	67	3.34	1.84	68	0.6	7.98
All	Cbc402	CI	two people hugging	Carter01	68	5.54	1.94	68	4.1	1.95	68	1.01	5.48
All	Sisis008l	CI	man with	ISIS	68	4.31	1.73	66	3.71	1.92	68	2.24	5.16

cigarette													
All	Sisis091r	CI	man smoking	ISIS	68	4.31	1.79	68	3.68	1.98	68	2.07	4.38
All	Sisis033r	CI	man smoking	ISIS	68	4.31	1.75	67	3.49	1.82	380	0.88	5.41
All	Sisis089l	CI	woman smoking	ISIS	68	3.78	1.87	66	3.39	1.8	380	1.33	5.4
All	Sisis106r	CI	man smoking	ISIS	68	4.18	1.74	67	3.43	1.84	380	0.41	7.3
All	Sisis093l	CI	man smoking	ISIS	68	4.21	1.59	67	3.34	1.86	381	1.63	7
All	Sisis062r	CI	man smoking	ISIS	101	3.79	1.91	101	3.69	2.01	528	1.77	6.86
All	Cqr443	CI	person smoking	Carter02	102	3.65	1.85	102	3.71	1.94	528	2.17	5.02
All	Sisis107l	CI	man smoking	ISIS	118	3.76	1.88	118	3.87	1.94	542	1.77	6.09
All	Sisis001r	CI	woman smoking	ISIS	118	3.64	1.77	117	4.05	1.91	543	2.1	5.27
All	Sisis010l	CI	man smoking	ISIS	118	3.77	1.86	117	3.88	2.04	543	1.65	6.52
All	Sisis100r	CI	man smoking	ISIS	120	3.93	1.78	120	3.89	2.08	533	1.66	6.46
All	Sisis108r	CI	man smoking	ISIS	215	4.83	1.9	216	4.06	2.21	369	1.16	5.43
All	Sisis068l	CI	woman smoking	ISIS	219	4.88	2.08	220	3.9	2.11	368	2.25	6.14
All	24004	CI	cigarette	FVLAB	223	4.68	2.04	223	4.33	2.25	369	2.11	7.1
All	24008	CI	smoking	FVLAB	223	4.9	1.97	223	4.16	2.12	369	0.09	5.24
All	NAPS006	CI	paraphernalia	NAPS	224	4.88	2.06	224	4.19	2.24	366	0.15	5.04
All	24010	CI	cigarette and ashtray	FVLAB	225	4.67	2.17	225	4.31	2.32	367	1.88	5.72
All	24006	CI	cigarette and ashtray	FVLAB	225	4.66	2.04	225	4.15	2.28	368	1.68	6.77
All	24005	CI	cigarette	FVLAB	228	4.41	2.17	229	3.82	2.17	369	1.75	6.39
All	Sisis070r	CI	woman smoking	ISIS	229	4.91	2.04	229	4.38	2.31	371	1.26	5.21
All	Sisis101l	CI	woman smoking	ISIS	229	4.85	1.95	229	4.2	2.35	371	2.21	6.23
All	Sisis019r	CI	man smoking	ISIS	229	4.76	1.9	229	4.1	2.22	375	1.13	7.21
All	Cbc417	CI	cigarette and ashtray	Carter01	236	4.78	2.03	236	4.07	2.26	373	2.31	4.55
All	24014	CI	cigarette pack	FVLAB	238	5	2.16	238	4.31	2.33	373	2.96	6.3
All	Sisis029l	CI	men smoking	ISIS	239	4.63	2.07	238	4.1	2.28	380	1.37	6.22
All	NAPS001	CI	cigarette and ashtray	NAPS	242	4.73	2.08	242	3.87	2.27	371	0.43	6.54
All	24001	CI	cigarette	FVLAB	242	4.8	2.18	242	3.98	2.31	375	2.42	6.57

All	24002	CI	cigarette	FVLAB	242	4.51	2.1	241	4.29	2.25	379	2.26	5.74
All	24003	CI	cigarette	FVLAB	244	4.67	2.13	245	3.85	2.25	380	1.6	7.45
All	24012	CI	cigarette pack	FVLAB	245	4.7	2.18	246	3.78	2.32	379	1.5	7.92
All	24009	CI	cigarette	FVLAB	245	4.7	2.2	245	4.05	2.29	380	1.37	6.47
All	Cqr545	CI	cigarette and ashtray	Carter02	246	4.75	2.18	245	3.93	2.19	382	1.59	5.89
All	Cbc404	CI	cigarette and ashtray	Carter01	248	4.69	2.22	247	3.85	2.27	380	0.79	7.2
All	Sisis030r	CI	man smoking	ISIS	267	4.52	2.07	267	4.19	2.24	528	1.08	5.13
All	Cbc401	CI	man smoking	Carter01	270	4.31	2.18	270	4.01	2.17	530	1.72	5.7
All	Sisis047r	CI	man smoking	ISIS	275	4.4	2.03	274	4.04	2.2	529	1.65	5.79
All	Sisis104r	CI	woman smoking	ISIS	278	4.41	2.14	278	4	2.23	529	1.13	6.18
All	Sisis058l	CI	woman smoking	ISIS	279	4.4	2.05	279	4.12	2.2	534	1.58	5.15
All	Sisis055r	CI	woman smoking	ISIS	283	4.57	2.17	283	3.86	2.18	532	1.07	5.42
All	22004	CI	person smoking	FVLAB	287	4.44	2.12	286	4.18	2.23	541	1.43	5.75
All	Sisis038l	CI	man smoking	ISIS	290	4.42	2.09	289	3.99	2.14	542	1.99	6.39
All	Sisis003r	CI	woman smoking	ISIS	291	4.57	2.17	291	3.93	2.25	530	2.05	7.15
All	Sisis081r	CI	woman smoking	ISIS	292	4.49	2.21	291	3.86	2.07	540	2.02	6.23
ID	Content		description	Source Catalog	Valence N	Valence M	Valence SD	Arousal N	Arousal M	Arousal SD	LPP N	LPP M	LPP SD
♀	3000 MU		Mutilation	IAPS	161	1.71	1.53	160	5.41	3	304	4.02	6.81
♀	3030 MU		Mutilation	IAPS	152	1.82	1.27	152	5.11	2.63	303	3.6	6.02
♀	3051 MU		Mutilation	IAPS	150	1.87	1.53	150	4.91	2.82	292	4.72	6.38
♀	3053 MU		BurnVictim	IAPS	141	1.54	1.5	141	5.73	2.91	294	3.09	7.33
♀	3060 MU		Mutilation	IAPS	156	1.82	1.61	156	5.31	2.83	293	2.9	6.55
♀	3068 MU		Mutilation	IAPS	165	1.76	1.65	165	5.73	2.85	305	2.99	6.81
♀	3069 MU		Mutilation	IAPS	141	1.51	1.22	142	5.61	3.1	292	4.06	6.41
♀	3080 MU		Mutilation	IAPS	155	1.72	1.39	154	5.08	2.89	292	2.54	5.21
♀	3100 MU		BurnVictim	IAPS	159	1.87	1.58	159	4.8	2.71	294	3.51	6.65
♀	3101 MU		BurntFace	IAPS	31	1.9	1.27	31	5.74	2.5	28	1.55	8.07
♀	3102 MU		BurnVictim	IAPS	20	1.45	1.05	20	3.95	2.67	17	4.59	6.72
♀	3110 MU		BurnVictim	IAPS	132	1.59	1.3	131	5.4	2.92	293	2.83	6.66

3120 MU	DeadBody	IAPS	148	1.93	1.52	148	4.82	2.78	292	3.39	5.96
3130 MU	Mutilation	IAPS	153	1.78	1.54	153	5.52	2.83	303	2.99	5.2
3140 MU	DeadBody	IAPS	54	1.83	1.37	55	4.45	2.57	138	2.58	5.44
3168 MU	Mutilation	IAPS	18	2	1.46	17	4	2.6	17	3.7	3.69
3170 MU	BabyTumor	IAPS	133	1.49	1.23	133	5.15	2.93	295	3.49	7.08
3225 MU	Mutilation	IAPS	55	2.02	1.52	55	4.98	2.59	137	3.74	6.18
3261 MU	Tumor	IAPS	146	1.49	1.19	145	5.47	3	303	3	6.37
3300 MU	DisabledChild	IAPS	31	2.29	1.49	31	5	2.14	28	1.55	4.44
3350 MU	Infant	IAPS	18	2.44	1.34	17	3.76	2.05	17	2.44	4.07
9253 MU	Mutilation	IAPS	18	2.17	1.54	18	4.78	2.53	17	1.86	3.44
9420 MU	Soldier	IAPS	112	1.8	1.58	112	4.63	2.84	175	1.11	6.24
9433 MU	DeadMan	IAPS	108	1.95	1.61	108	5.16	2.97	185	1.16	6.75
2095 VI	Toddler	IAPS	31	1.55	1.12	31	5.42	2.66	28	2.07	4.87
2141 VI	GrievingFem	IAPS	18	2.5	1.47	18	4.17	2.12	17	-0.9	3.01
2205 VI	Hospital	IAPS	112	2.81	2.05	112	4.14	2.34	174	0.64	5.81
2276 VI	Girl	IAPS	18	2.83	1.54	18	4.28	1.96	17	1	6.29
2399 VI	Woman	IAPS	20	3.3	1.49	20	2.55	1.7	18	-0.2	9.7
2455 VI	SadGirls	IAPS	123	3.99	1.92	122	3.84	1.8	183	0.7	5.96
2490 VI	Man	IAPS	123	3.5	1.77	123	4.03	1.87	184	0.08	6.64
2491 VI	SickMan	IAPS	18	4.06	1.39	18	3.83	2.12	17	0.14	4.02
2520 VI	ElderlyMan	IAPS	97	4.68	1.91	97	3.65	2.21	174	2.89	5.13
2590 VI	ElderlyWoman	IAPS	95	4.41	1.82	95	3.95	1.95	174	0.23	5.3
2700 VI	Woman	IAPS	108	3.01	1.61	107	4.21	2.16	182	0.79	5.99
2703 VI	SadChildren	IAPS	110	2.11	1.67	110	4.45	2.72	173	0.81	5.56
2800 VI	SadChild	IAPS	97	2.18	1.79	97	4.44	2.52	172	1.42	5.2
2810 VI	Boy	IAPS	112	4.05	1.79	112	3.76	2.09	175	0.52	6.09
2811 VI	gun	IAPS	40	1.7	1.2	40	5.95	2.52	119	2.7	4.99
2900 VI	CryingBoy	IAPS	95	2.61	1.57	95	4.06	2.16	172	0.48	8.02
3280 VI	DentalExam	IAPS	123	3.88	1.9	123	4.41	2.26	185	0.89	8.86
3500 VI	Attack	IAPS	37	2.03	1.4	37	5.54	2.38	119	1.17	6.03
3530 VI	Attack	IAPS	47	1.96	1.32	47	5.94	2.14	120	1.64	5.27
6231 VI	Aimedgun	IAPS	35	2.34	1.73	35	5.06	2.41	120	2.58	5.75

6242 VI	Gang	IAPS	38	2.5	1.83	38	5.03	2.44	120	2.13	8.56
6313 VI	Attack	IAPS	35	1.91	1.56	35	5.11	2.54	120	3.59	4.46
6315 VI	BeatenFem	IAPS	47	1.87	1.1	47	5.55	2.23	120	2.44	6.44
6350 VI	Attack	IAPS	47	1.94	1.24	47	6.15	2.41	119	2.61	5.77
6360 VI	Attack	IAPS	42	2.14	1.56	42	5.38	2.42	120	2.08	5.36
6510 VI	Attack	IAPS	37	2.05	1.49	37	5.7	2.56	119	3.79	6.67
6540 VI	Attack	IAPS	45	1.69	1.08	45	5.76	2.6	119	2.36	5.72
6550 VI	Attack	IAPS	45	1.47	1.01	45	5.71	2.5	119	4.06	5.51
6571 VI	CarTheft	IAPS	37	2.38	1.55	37	5.49	2.43	120	2.82	5.4
9190 VI	Woman	IAPS	31	4.23	0.99	31	3.94	1.53	28	1.46	9.96
9265 VI	HungMan	IAPS	20	1.55	1.19	20	4.3	2.47	17	3.18	5.74
9410 VI	Soldier	IAPS	31	1.52	1	30	5.97	2.91	28	2.95	8.42
9421 VI	Soldier	IAPS	95	2.37	1.61	95	4.44	2.54	173	1	7.56
9429 VI	Assault	IAPS	112	2.76	1.81	112	4.43	2.55	174	0.29	5.65
9520 VI	Kids	IAPS	108	2.76	1.77	108	4.66	2.52	184	0.2	5.63
9530 VI	Boys	IAPS	110	3.14	1.88	110	4.07	2.11	171	0.18	6.13
9926 VI	Flood	IAPS	97	3.25	2.25	97	4.69	2.47	174	1.37	7.58
6000 UO	Prison	IAPS	31	4.16	1.42	31	4.32	1.99	28	-1.2	4.16
6020 UO	ElectricChair	IAPS	150	2.87	1.93	150	3.84	2.44	293	1.84	4.57
6190 UO	Aimedgun	IAPS	20	2.9	1.89	20	4.7	2.64	18	2.95	8.16
6200 UO	Aimedgun	IAPS	31	2.97	1.56	31	5.55	2.28	28	2.77	7.72
6210 UO	Aimedgun	IAPS	53	3.04	1.94	53	5.13	2.11	137	0.77	6.83
6230 UO	Aimedgun	IAPS	167	2.73	2.02	167	5.33	2.73	302	2.61	5.78
6260 UO	Aimedgun	IAPS	140	2.41	1.82	140	5.26	2.65	293	2.94	5.89
6410 UO	Aimedgun	IAPS	20	4.25	1.55	20	4.4	2.28	18	0.21	5.11
9010 UO	BarbedWire	IAPS	58	4.36	1.36	58	3.88	1.75	137	0.93	6.62
9090 UO	Exhaust	IAPS	155	3.63	1.72	155	3.93	2.13	305	1.56	6.87
9110 UO	Puddle	IAPS	147	3.52	1.63	147	3.74	2.07	295	1.98	6.54
9290 UO	Garbage	IAPS	157	2.78	1.79	157	3.82	2.26	293	0.4	4.98
9291 UO	garbage	IAPS	44	2.7	1.9	44	4.8	2	120	0.47	8.07
9295 UO	garbage	IAPS	42	2	1.41	42	4.55	2.15	119	0.41	6.28
9300 UO	Dirty	IAPS	148	2.01	1.75	148	4.38	2.87	293	1.34	5.82

9301	UO	Toilet	IAPS	142	1.8	1.4	142	4.81	2.96	294	3.25	6.39
9320	UO	Vomit	IAPS	163	2.12	1.65	163	4.44	2.66	304	1.66	6.96
9373	UO	Garbage	IAPS	145	3.22	1.72	145	4.27	2.22	305	0.83	5.53
9390	UO	Dishes	IAPS	18	3.67	1.94	18	4	2.17	17	-2.5	4.57
9560	UO	DuckInOil	IAPS	137	2.53	1.87	137	4.57	2.41	294	2.34	5.96
9600	UO	Ship	IAPS	152	2.35	1.68	152	4.59	2.66	294	1.75	5.33
9620	UO	Shipwreck	IAPS	18	3.06	1.39	18	4.44	2.33	17	0.54	5.66
9621	UO	Ship	IAPS	152	3.46	1.78	152	4.57	2.25	304	0.82	6.75
9901	UO	CarAccident	IAPS	112	2.55	1.87	112	4.27	2.57	173	0.74	7.57
9911	UO	CarAccident	IAPS	152	2.35	1.74	151	5.09	2.63	305	2.29	5.77
9912	UO	Firefighter	IAPS	130	2.63	1.77	130	4.68	2.43	291	1.46	6.25
7000	NO	RollingPin	IAPS	138	5.1	1.18	138	3.54	2.03	305	0.32	4.93
7002	NO	Towel	IAPS	112	5.05	1.22	112	3.75	1.86	291	0.27	6.5
7004	NO	Spoon	IAPS	112	5.13	1.32	112	3.46	2.01	175	0.21	7.39
7006	NO	Bowl	IAPS	120	4.87	1.28	120	3.43	2.07	304	0.62	6.41
7009	NO	Mug	IAPS	124	5.08	1.32	124	3.52	2.03	294	0.59	7.77
7010	NO	Basket	IAPS	110	5	1	110	3.55	1.83	293	0.71	5.4
7020	NO	Fan	IAPS	20	5	1.72	20	3.35	1.87	18	-1	7.25
7030	NO	Iron	IAPS	125	4.74	1.35	125	3.81	2.04	292	1.23	5.21
7034	NO	Hammer	IAPS	112	4.9	1.09	112	3.79	1.88	294	0.47	5.44
7038	NO	Shoes	IAPS	31	5.13	1.31	31	4	2.21	28	1.09	5.5
7040	NO	DustPan	IAPS	135	4.9	1.12	135	3.47	1.88	305	0.71	6.41
7041	NO	Baskets	IAPS	110	4.84	1.4	109	3.62	1.96	294	1.7	6.27
7050	NO	hairdryer	IAPS	12	5	0	12	4.08	1.68	120	0.95	4.29
7052	NO	Clothespins	IAPS	135	5.24	1.46	135	3.64	2.13	303	1.44	5.36
7053	NO	Candlestick	IAPS	119	5.18	1.2	120	3.67	1.88	305	1.55	5.89
7054	NO	Glass	IAPS	125	4.08	1.66	125	3.75	2.03	292	0.78	7.09
7055	NO	Lightbulb	IAPS	112	4.86	0.96	112	3.65	1.89	294	0.68	6.27
7056	NO	Tool	IAPS	124	4.94	0.9	124	3.53	1.88	293	2.26	6.86
7059	NO	Keyring	IAPS	107	4.9	0.99	107	3.84	1.81	292	1.12	5.42
7080	NO	Fork	IAPS	18	5.22	0.94	18	3.72	2.27	17	-0.8	3.41
7090	NO	Book	IAPS	18	5.44	0.86	18	3.56	2.12	17	-0.1	5.04

7110 NO	Hammer	IAPS	31	4.87	0.56	30	3.53	1.89	28	-0.4	9.44
7130 NO	Truck	IAPS	31	4.97	0.41	31	3.35	1.84	27	0.25	5.86
7140 NO	Bus	IAPS	20	5.1	0.79	20	3.7	1.98	17	-0.7	10.5
50006 NO	truck	FVLAB	18	5	0	18	3.56	2.04	17	1.67	4.58
2102 NP	NeuMan	IAPS	161	5.45	1.35	161	3.65	1.92	304	2.01	6.55
2104 NP	NeuWoman	IAPS	18	4.89	1.28	18	3.94	1.83	17	0.54	3.95
2107 NP	Male	IAPS	117	5.44	1.4	117	3.69	2.04	275	1.5	4.62
2190 NP	Man	IAPS	20	5.45	1.57	20	3.55	1.93	18	0.68	10.1
2191 NP	Farmer	IAPS	159	6.24	1.67	159	3.91	2.36	293	0.24	4.85
2200 NP	NeutFace	IAPS	97	5.26	1.14	97	3.71	1.91	175	0.7	5.17
2210 NP	NeutFace	IAPS	148	4.89	1.4	148	3.62	1.93	293	1.02	4.35
2214 NP	NeutMan	IAPS	97	5.27	1.4	97	3.74	1.94	175	0.43	4.74
2215 NP	NeutMan	IAPS	123	5.06	1.13	123	3.78	1.85	184	0.55	5.74
2220 NP	MaleFace	IAPS	31	5.16	1.24	31	3.9	1.96	182	2.21	5.07
2221 NP	Judge	IAPS	20	4.4	1.27	20	3.55	1.7	174	1.51	4.64
2230 NP	SadFace	IAPS	18	5	1.37	18	3.44	2.33	17	1.22	3.45
2235 NP	Butcher	IAPS	31	6.23	1.54	31	4.1	1.83	184	0.42	9.48
2305 NP	Woman	IAPS	163	5.15	1.18	163	3.71	1.83	305	1.32	5.57
2312 NP	Mother	IAPS	108	4.37	1.92	108	4.09	1.89	183	1.67	5.61
2358 NP	Family	IAPS	20	6.35	1.95	20	4.55	3.02	18	2.51	7.77
2372 NP	Woman	IAPS	31	5.68	1.25	31	4.1	2.21	185	1.74	6.46
2383 NP	Secretary	IAPS	62	5.16	0.93	62	3.79	1.97	292	0.77	6.07
2393 NP	Factoryworker	IAPS	154	5.32	1.29	154	3.88	2.09	293	0.68	5.88
2396 NP	Couple	IAPS	153	5.21	1.37	153	3.86	2.08	304	1.57	6.46
2397 NP	Men	IAPS	18	4.78	1.66	18	3.94	2.01	17	0.41	2.98
2435 NP	Mom/Son	IAPS	150	6.05	1.63	150	4.32	2.09	303	0.33	5.64
2441 NP	NeutralGirl	IAPS	71	5.03	1.32	71	3.96	1.91	305	1.89	7.04
2485 NP	Man	IAPS	18	5.5	1.15	18	4.11	1.53	17	-0.2	2.27
2493 NP	NeutralMale	IAPS	18	4.83	0.51	18	3.94	1.89	173	0.97	6.37
2495 NP	Man	IAPS	31	5.32	1.08	31	3.58	1.86	28	1.92	4.7
2499 NP	NeutralMale	IAPS	18	5	1.41	18	3	1.91	17	1.75	4.24
2500 NP	Man	IAPS	55	5.71	1.54	55	4.05	1.85	294	1.58	6.48

	2510 NP	ElderlyWoman	IAPS	18	6.78	1.56	18	3.94	2.67	17	1.02	4.45
	2512 NP	Man	IAPS	18	5.44	1.42	18	3.56	2.01	17	0.36	6.11
	2513 NP	Woman	IAPS	20	5.95	1.43	20	3.05	2.21	18	0.81	4.93
	2515 NP	Harvest	IAPS	31	6.65	1.6	30	4.63	1.96	183	0.73	4.36
	2570 NP	Man	IAPS	31	5.35	0.91	31	3.77	1.56	28	0.64	8.21
	2575 NP	Propeller	IAPS	156	5.08	1.21	156	3.47	2.01	294	0.87	5.02
	2579 NP	Bakers	IAPS	20	5.5	1.67	20	4	2.47	174	0.57	4.9
	2593 NP	Men	IAPS	18	5.89	1.18	18	3.67	1.81	174	-0.2	4.78
	2594 NP	City	IAPS	31	6.19	1.6	31	4.42	2.19	28	-0.4	8.34
	2595 NP	Women	IAPS	60	5.27	1.15	60	3.88	1.82	293	1.21	5.87
	2597 NP	Market	IAPS	18	4.94	1.3	18	3.56	2.01	174	0.37	6.73
	2598 NP	Family	IAPS	20	7.3	1.53	20	4.7	2.94	17	2.92	6.93
	2600 NP	Beer	IAPS	20	6.3	1.78	20	4.2	2.46	18	-1.2	6.19
	2630 NP	Male	IAPS	55	5.42	1.42	54	4.17	1.86	292	0.12	7.67
	2830 NP	Woman	IAPS	20	5.85	1.57	20	3.85	2.56	18	0.44	5.47
	2850 NP	Tourist	IAPS	18	5.44	1.04	18	4.06	1.83	172	0.31	5.03
	7550 NP	Office	IAPS	58	5.19	1.03	58	4.1	1.88	290	1.13	6.38
	9070 NP	Boy	IAPS	150	5.24	1.99	150	4.05	2.04	305	2.63	6.55
	52006 NP	man	FVLAB	123	4.75	1.18	123	3.54	1.83	184	-0.1	7.7
	52007 NP	man	FVLAB	97	5.25	1.32	97	3.86	2.02	173	0.53	6.2
	52008 NP	man face	FVLAB	20	5.65	1.31	20	3.75	2.53	18	-0.4	7
	7350 FD	Pizza	IAPS	108	6.86	1.69	108	5.19	2.27	184	1.01	4.81
	7450 FD	Cheeseburger	IAPS	20	6.5	1.79	20	3.95	2.7	18	0.86	8.41
	7460 FD	FrenchFries	IAPS	95	6.64	1.79	95	5.01	2.59	174	2.39	6.89
	7480 FD	Pasta	IAPS	18	5.61	1.65	18	3.89	2.05	17	1.07	4.95
	7482 FD	Lamb	IAPS	20	6.25	1.86	20	4.45	2.86	18	0.87	5.52
	7485 FD	lamb and rice	IAPS	30	6.43	1.63	31	4.77	1.84	28	0.67	4.98
	22 FD	fried egg	OLAF	92	5.29	2.14	92	4.11	2.21	155	0.71	4.94
	37 FD	french fries	OLAF	67	6.01	2	67	4.78	2.27	119	-0.4	6.73
	75 FD	french fries	OLAF	147	6.41	2.02	147	4.92	2.27	277	0.09	6.02
	655 FD	pizza	OLAF	67	6.12	1.71	67	4.69	1.94	120	2.02	8.01
	6054 FD	pizzaNONIAPS	OLAF	92	5.59	2.29	92	4.48	2.45	156	1.63	8.02

42055 FD	hamburger	FVLAB	67	6.69	1.95	67	5.04	1.94	120	1.51	4.77
42056 FD	hot dogs	FVLAB	70	5.14	2.16	70	4.33	1.94	120	1.57	4.99
42057 FD	chicken wings	FVLAB	70	6.29	1.76	70	4.74	2.05	120	0.33	7.3
42058 FD	hamburger	FVLAB	67	6.1	2.1	67	4.85	1.86	120	1.89	4.79
42067 FD	burger	FVLAB	162	5.69	2.06	162	4.59	2.02	274	1.64	4.48
7270 FD	IceCream	IAPS	20	6.45	1.99	20	4.7	2.9	17	1.26	4.95
7330 FD	IceCream	IAPS	165	6.95	1.83	165	5.15	2.55	293	1.65	6.94
7340 FD	IceCream	IAPS	123	7.35	1.76	123	5.03	2.72	185	2	4.43
7410 FD	Candy	IAPS	165	6.45	1.77	164	4.87	2.33	293	1.39	5.48
7430 FD	Candy	IAPS	167	6.42	1.69	166	4.83	2.24	289	1.64	7.13
7470 FD	Pancakes	IAPS	178	6.84	1.72	178	5.04	2.13	303	0.89	5.18
96 FD	candies	OLAF	92	5.72	1.75	92	4.25	2.32	156	0.53	5.07
150 FD	pastries	OLAF	144	6.67	1.9	144	4.94	2.17	277	1.52	6.08
40060 FD	pastries	FVLAB	159	6.65	1.8	159	4.92	2.29	277	1.49	5.59
40061 FD	icecream	FVLAB	159	6.94	1.66	159	4.87	2.45	276	1.95	5.26
40062 FD	pastries	FVLAB	159	6.6	1.82	159	4.76	2.41	274	1.63	7.07
5250 LA	Nature	IAPS	31	6	1.79	30	4.33	2.09	28	0.26	4.85
5626 LA	HangGlider	IAPS	31	7.26	1.73	30	5.97	2.67	27	1.2	7.72
5628 LA	Mountains	IAPS	20	7.3	1.78	20	5.8	3	17	0.1	11.9
5629 LA	Hiker	IAPS	18	6.56	1.65	18	4.5	2.68	17	-0.7	4.58
5631 LA	Mountains	IAPS	18	7.39	1.5	18	4.28	2.78	17	-0.3	5.38
5660 LA	Mountains	IAPS	31	7	1.57	31	4.55	2.59	28	1.65	8.83
5661 LA	Cave	IAPS	20	6.6	1.64	20	3.65	2.64	18	-0.3	4.31
5700 LA	Mountains	IAPS	18	7.28	1.36	18	4.33	2.68	17	1.04	4.83
5711 LA	Field	IAPS	18	7	1.91	18	3.72	2.42	17	-1	6.57
5764 LA	Field	IAPS	31	7.58	1.23	31	4.23	2.39	28	0.3	6.55
5780 LA	Nature	IAPS	19	7.53	1.35	20	4.15	3.17	18	-2.1	7.33
5781 LA	Lake	IAPS	20	7.8	1.47	20	3.4	3	18	1.26	6.78
2208 RO	Bride	IAPS	55	6.96	1.83	55	5.11	2.49	138	1.33	7.26
4599 RO	Romance	IAPS	63	6.54	1.57	63	4.48	2.23	137	2.06	7.01
4610 RO	Romance	IAPS	68	6.54	1.61	68	4.31	2.38	147	2.63	5.14
4623 RO	Romance	IAPS	20	7	1.72	20	5.15	3.05	18	1.69	7.29

+	4624 RO	Couple	IAPS	169	6.64	1.61	170	4.54	2.25	303	2.11	5.98
+	4625 RO	Couple	IAPS	130	6.74	1.81	130	4.78	2.52	292	1.21	7.02
+	4626 RO	Wedding	IAPS	31	7.52	1.63	31	5.16	2.65	28	0.04	6.63
+	4628 RO	Wedding	IAPS	92	7.5	1.81	92	5.33	2.6	155	1.5	6.02
+	4640 RO	Romance	IAPS	142	6.32	1.79	142	4.38	2.27	294	1.98	4.58
+	4641 RO	Romance	IAPS	152	6.76	1.74	152	4.48	2.41	292	3.03	7.54
+	4643 RO	EroticCouple	IAPS	146	6.42	1.73	146	4.74	2.17	303	2.71	5.41
+	4645 RO	EroticCouple	IAPS	20	6.6	1.67	19	4.63	3.11	17	1.61	6.25
+	4700 RO	Couple	IAPS	137	6.55	1.57	137	4.44	2.47	295	0.56	6.66
+	44006 RO	people kissing	FVLAB	157	6.2	1.76	157	4.44	2.18	293	2.06	5.92
+	44007 RO	romantic couple	FVLAB	148	6.6	1.42	148	4.66	2.41	304	0.81	5.91
+	44008 RO	people kissing	FVLAB	165	6.59	1.82	164	4.84	2.32	302	3.19	6.33
+	44009 RO	people kissing	FVLAB	150	6.31	1.89	150	4.49	2.3	294	2.82	8
+	44010 RO	people kissing	FVLAB	152	6.43	1.69	152	4.67	2.31	303	2.35	5.57
+	44011 RO	romantic couple	FVLAB	149	6.56	1.65	149	4.21	2.28	295	2.83	5.96
+	44012 RO	wedding	FVLAB	152	7.52	1.7	152	5.45	2.7	293	1.71	6.43
+	44015 RO	people kissing	FVLAB	108	6.37	1.79	108	4.74	2.51	185	0.92	4.78
+	44021 RO	people kissing	FVLAB	94	6.21	1.74	94	4.62	2.41	173	1.19	7.19
+	44022 RO	people kissing	FVLAB	20	6.2	1.61	20	4.6	2.7	18	5.06	9.06
+	44023 RO	people kissing	FVLAB	20	5.75	1.86	20	4.1	2.61	17	1.97	4.9
+	44024 RO	couple on beach	FVLAB	18	5.89	1.45	18	4.33	2.09	17	1.03	4.56
+	4611 ER	EroticCouple	IAPS	161	6.38	1.75	161	4.72	2.32	303	4.05	5.69
+	4647 ER	EroticCouple	IAPS	20	6.4	2.5	20	5	2.92	18	2.31	4.39
+	4649 ER	EroticCouple	IAPS	18	6.11	1.32	18	4.78	2.39	17	4.5	3.94
+	4650 ER	EroticCouple	IAPS	78	5.95	1.58	78	4.73	2.19	148	1.87	6.06
+	4653 ER	EroticCouple	IAPS	57	6.93	1.6	57	5.04	2.54	138	2.01	5.11
+	4658 ER	EroticCouple	IAPS	133	6.69	2.1	135	5.33	2.64	294	3.8	5.89
+	4659 ER	EroticCouple	IAPS	150	6.58	1.84	150	5.41	2.49	292	2.66	4.98
+	4660 ER	EroticCouple	IAPS	78	6.31	1.51	78	4.94	2.14	148	2.72	7.17
+	4666 ER	EroticCouple	IAPS	30	6.27	1.84	31	5.32	2.33	28	4.26	7.7
+	4669 ER	EroticCouple	IAPS	139	6.52	1.85	139	5.47	2.46	292	2.53	5.77
+	4676 ER	EroticCouple	IAPS	30	6.47	1.63	29	5.55	2.18	28	3.11	6.96

4677 ER	EroticCouple	IAPS	149	6.7	1.8	149	4.99	2.54	293	3.97	6.37
4680 ER	EroticCouple	IAPS	139	6.56	1.95	139	5.36	2.55	293	2.94	6.18
4687 ER	EroticCouple	IAPS	147	6.54	1.95	147	5.05	2.54	293	2.56	6.37
4689 ER	EroticCouple	IAPS	18	5.94	1.59	18	3.83	1.89	17	2.73	3.79
4690 ER	EroticCouple	IAPS	140	6.16	1.9	140	4.89	2.32	293	3.31	5.87
4691 ER	EroticCouple	IAPS	155	6.5	1.82	155	5.37	2.53	293	3.29	5.93
4693 ER	EroticCouple	IAPS	134	6.5	1.99	134	5.35	2.64	294	3.7	5.33
4694 ER	EroticCouple	IAPS	19	6.68	2	19	4.84	2.89	18	3.12	6.04
4695 ER	EroticCouple	IAPS	95	6.63	1.79	95	5.08	2.6	173	2.66	6.03
4696 ER	EroticCouple	IAPS	158	6.39	1.8	158	5.04	2.29	301	1.7	6.35
4698 ER	EroticCouple	IAPS	142	6.3	1.76	142	4.99	2.39	294	3.75	6.92
4783 ER	EroticCouple	IAPS	92	6.52	1.61	92	4.91	2.45	155	3.15	6.99
4800 ER	EroticCouple	IAPS	148	6.47	1.83	149	5.54	2.43	305	3.04	6.85
4810 ER	EroticCouple	IAPS	31	6.42	2.06	31	6.03	2.54	28	5.5	7.81
46017 ER	EroticCouple	FVLAB	92	6.6	1.89	92	5.23	2.5	155	3.94	5.58
24000 CI	cigarette	FVLAB	31	3.84	1.51	31	3.45	1.75	28	2.1	4.23
24001 CI	cigarette	FVLAB	121	4.69	2.32	121	4.07	2.54	175	2.09	7.45
24002 CI	cigarette	FVLAB	113	4.35	2.08	113	4.3	2.27	183	1.96	6.06
24003 CI	cigarette	FVLAB	128	4.55	2.15	128	3.91	2.27	184	1.64	5.95
24004 CI	cigarette	FVLAB	100	4.59	2.14	100	4.26	2.34	174	1.85	4.86
24005 CI	cigarette	FVLAB	118	4.36	2.3	119	3.81	2.25	173	2.29	5.52
24006 CI	cigarette and ashtray	FVLAB	104	4.45	2.13	104	4.23	2.3	172	2.09	6.01
24007 CI	cigarette	FVLAB	20	4.65	1.63	20	3.7	1.98	18	1.74	7.24
24008 CI	smoking paraphernalia	FVLAB	100	4.5	1.98	100	4.08	2.23	173	0.57	4.4
24009 CI	cigarette	FVLAB	127	4.56	2.25	128	4.01	2.34	183	0.73	6.76
24010 CI	cigarette	FVLAB	104	4.45	2.36	104	4.32	2.4	172	2.23	5.5
24011 CI	cigarette	FVLAB	20	4.9	2.05	20	3.7	2.62	18	1.52	3.59
24012 CI	cigarette pack	FVLAB	127	4.58	2.18	128	3.81	2.34	184	1.93	9.81
24013 CI	cigarette	FVLAB	20	4.85	1.9	20	4.05	2.56	18	0.81	5.02
24014 CI	cigarette pack	FVLAB	106	4.75	2.32	106	4.25	2.52	174	2.96	7.49

♀	Cbc404	CI	cigarette and ashtray	Carter01	132	4.61	2.2	132	4.07	2.35	184	0.84	7.92
♀	Cbc417	CI	cigarette and ashtray	Carter01	102	4.76	2.29	102	4.02	2.47	173	2.31	4.44
♀	Cqr545	CI	cigarette and ashtray	Carter02	128	4.58	2.16	128	3.96	2.18	185	1.1	6.1
♀	NAPS001	CI	cigarette and ashtray	NAPS	121	4.61	2.16	121	3.91	2.39	172	0.26	6.25
♀	NAPS006	CI	cigarette and ashtray	NAPS	104	4.72	2.28	104	4.19	2.52	172	0.38	4.53
♀	Sisis020r	CI	cigarette	ISIS	31	4.48	1.75	31	3.77	1.93	28	-0.7	12
♀	Sisis034r	CI	cigarette	ISIS	18	4.5	2.07	18	3.44	2.23	17	2.35	4.29
♂	Sisis088l	CI	cigarette	ISIS	18	4.39	1.72	18	3.39	2.09	17	-0	5.49
♂	Sisis111r	CI	cigarette	ISIS	20	4.9	1.89	20	4.4	2.76	18	2.34	4.83
♂	22004	CI	person smoking	FVLAB	145	4.2	2.16	145	4.14	2.23	303	1.56	6.09
♂	Cbc401	CI	man smoking	Carter01	152	4.12	2.19	152	4.06	2.24	293	1.87	4.73
♂	Cbc402	CI	two people hugging	Carter01	31	5.81	1.97	31	4.23	1.94	28	-0	6.67
♂	Cbc411	CI	man smoking	Carter01	18	4.39	1.97	18	2.83	1.89	17	2.71	5.44
♂	Cbc412	CI	two people talking	Carter01	20	4.95	2.06	20	3.9	2.57	18	-0.7	5.01
♂	Cqr433	CI	man smoking	Carter02	18	4.5	1.89	18	3.44	1.85	17	1.54	5.37
♂	Cqr443	CI	person smoking	Carter02	58	3.28	1.88	58	3.79	1.95	292	2.3	5.03
♂	Sisis001r	CI	woman smoking	ISIS	66	3.41	1.8	66	4.09	1.94	305	1.94	5.16
♂	Sisis003r	CI	woman smoking	ISIS	156	4.35	2.34	156	3.95	2.41	294	2.37	8.49
♂	Sisis004l	CI	man smoking	ISIS	31	4.06	1.65	31	3.65	1.99	185	2.12	4.92
♀	Sisis007l	CI	man with cigarette	ISIS	20	5	2.22	20	4.15	2.98	171	1.88	6.5
♀	Sisis008l	CI	man with cigarette	ISIS	31	4.16	1.59	30	3.87	1.87	28	2.25	6.66
♀	Sisis010l	CI	man smoking	ISIS	73	3.44	1.85	73	3.93	2.03	305	1.72	5.22
♀	Sisis016r	CI	man smoking	ISIS	20	4.85	1.84	20	3.9	2.36	17	-0.3	7.92
♀	Sisis017l	CI	man smoking	ISIS	20	4.4	2.06	20	3.95	2.78	174	1.08	7.86

+	Sisis019r	CI	man smoking	ISIS	97	4.67	2.14	97	4.22	2.51	175	0.3	6.57
+	Sisis022r	CI	man smoking	ISIS	18	4.56	1.62	17	3.12	1.93	174	1.9	5.7
+	Sisis029r	CI	men smoking	ISIS	123	4.51	1.99	123	4.12	2.3	184	1	5.05
+	Sisis030r	CI	man smoking	ISIS	140	4.11	2.25	140	4.21	2.23	293	1.19	4.79
+	Sisis031r	CI	man smoking	ISIS	20	4.75	2.24	20	3.75	2.77	175	1.11	4.97
+	Sisis033r	CI	man smoking	ISIS	31	4.23	1.54	31	4.03	1.76	184	0.79	4.92
+	Sisis038r	CI	man smoking	ISIS	161	4.2	2.13	161	4.01	2.13	305	2.21	5.3
+	Sisis047r	CI	man smoking	ISIS	142	3.94	2.05	142	3.9	2.24	293	1.73	5.32
+	Sisis055r	CI	woman smoking	ISIS	157	4.19	2.17	157	3.8	2.29	292	0.59	5.51
+	Sisis058r	CI	woman smoking	ISIS	132	4.33	2.27	132	4.16	2.34	293	1.33	4.58
+	Sisis062r	CI	man smoking	ISIS	57	3.47	1.9	57	3.95	2.08	292	1.24	6.49
+	Sisis063r	CI	person smoking	ISIS	20	4.95	1.73	20	4.25	2.61	18	2.19	8.04
+	Sisis068r	CI	woman smoking	ISIS	109	4.72	2.19	110	3.93	2.16	173	2.37	4.96
+	Sisis070r	CI	woman smoking	ISIS	97	4.79	2.27	97	4.47	2.56	173	1.24	5.1
+	Sisis073r	CI	women smoking	ISIS	19	5.16	2.06	20	3.9	2.29	174	0.75	7.57
+	Sisis081r	CI	woman smoking	ISIS	163	4.12	2.2	163	3.84	2.06	304	1.94	7.07
+	Sisis089r	CI	woman smoking	ISIS	31	3.61	1.71	31	3.58	1.71	184	0.84	5.48
+	Sisis091r	CI	man smoking	ISIS	31	4.13	1.59	31	3.65	1.94	28	1.23	5.03
+	Sisis092r	CI	person smoking	ISIS	18	4.56	2.01	18	3.17	1.86	17	2.01	3.11
+	Sisis093r	CI	man smoking	ISIS	31	4.06	1.63	31	3.61	1.96	184	1.92	5.26
+	Sisis097r	CI	person smoking	ISIS	29	4.14	1.94	30	3.53	2	28	0.36	6.07
+	Sisis099r	CI	man smoking	ISIS	19	4.89	1.85	20	4.25	2.69	18	2.01	3.69
+	Sisis100r	CI	man smoking	ISIS	64	3.59	1.97	64	4.05	2.39	292	1.47	7.47
+	Sisis101r	CI	woman smoking	ISIS	97	4.85	2.22	97	4.26	2.51	172	1.83	5.99
+	Sisis103r	CI	person smoking	ISIS	19	4.68	2.03	20	3.95	2.78	18	1.7	7.85
+	Sisis104r	CI	woman smoking	ISIS	154	4.35	2.17	154	4.1	2.25	293	1.04	6.03
+	Sisis106r	CI	man smoking	ISIS	31	4.06	1.63	31	3.68	1.92	185	-0.2	7.86
+	Sisis107r	CI	man smoking	ISIS	69	3.48	1.88	69	4	1.92	305	1.88	5.9
+	Sisis108r	CI	man smoking	ISIS	95	4.68	2.09	95	4.15	2.3	173	0.62	5.34
+	Sisis115r	CI	man smoking	ISIS	18	4.11	1.84	18	3.39	1.85	17	2.83	4.18
+	Sisis116r	CI	man smoking	ISIS	18	4.17	1.62	18	3.56	2.04	17	3.99	4.88
+	Sisis118r	CI	man smoking	ISIS	18	4.5	1.82	18	3.72	1.99	17	1.47	3.25

♀	Sisis120r	CI	people smoking	ISIS	18	4.44	2.04	18	3.33	1.88	17	2.21	6.01
	ID	Content	description	Source Catalog	Valence N	Valence M	Valence SD	Arousal N	Arousal M	Arousal SD	LPP N	LPP M	LPP SD
♂	3000 MU	Mutilation	IAPS		129	1.86	1.48	128	4.69	2.8	233	4.26	7.75
♂	3030 MU	Mutilation	IAPS		141	2.27	1.5	140	4.52	2.52	232	4.01	5.31
♂	3051 MU	Mutilation	IAPS		122	2.18	1.62	123	4.18	2.44	232	3.87	6.58
♂	3053 MU	BurnVictim	IAPS		145	1.76	1.37	146	4.86	2.91	237	3.72	6.06
♂	3060 MU	Mutilation	IAPS		135	2.16	1.44	135	4.47	2.65	237	3.81	6.66
♂	3068 MU	Mutilation	IAPS		124	1.85	1.55	122	4.59	2.72	235	2.94	6.76
♂	3069 MU	Mutilation	IAPS		138	2.06	1.53	137	5	2.92	237	4.06	5.91
♂	3080 MU	Mutilation	IAPS		116	1.97	1.46	116	4.51	2.61	232	2.14	7
♂	3100 MU	BurnVictim	IAPS		133	1.97	1.27	133	4.03	2.4	236	3.58	5.94
♂	3101 MU	BurntFace	IAPS		37	2.24	1.5	36	3.97	2.46	39	3.28	3.96
♂	3102 MU	BurnVictim	IAPS		42	2.14	1.56	42	4	2.43	42	3.53	5.68
♂	3110 MU	BurnVictim	IAPS		135	2.06	1.56	136	4.65	2.81	233	2.07	5.98
♂	3120 MU	DeadBody	IAPS		123	2.15	1.49	123	4.41	2.55	234	3.86	6.48
♂	3130 MU	Mutilation	IAPS		133	2.28	1.64	132	4.61	2.65	231	3.44	6.79
♂	3140 MU	DeadBody	IAPS		57	2.28	1.49	57	4.93	2.42	83	4.09	8.17
♂	3168 MU	Mutilation	IAPS		31	2.48	2.06	31	4	2.5	38	3.56	3.44
♂	3170 MU	BabyTumor	IAPS		147	1.88	1.55	147	4.72	2.73	235	4.56	6.24
♂	3225 MU	Mutilation	IAPS		46	2.43	1.64	46	4.24	2.46	79	4.34	6.2
♂	3261 MU	Tumor	IAPS		140	1.79	1.45	138	5.07	2.93	234	2.97	7.5
♂	3300 MU	DisabledChild	IAPS		37	3.46	1.54	37	3.92	1.77	39	3.25	4.76
♂	3350 MU	Infant	IAPS		31	3.06	2.17	31	4.29	2.36	38	3.5	4.14
♂	9253 MU	Mutilation	IAPS		31	2.42	1.48	31	4.13	2.45	38	1.27	3.87
♂	9420 MU	Soldier	IAPS		121	2.21	1.53	121	4.3	2.41	196	0.36	6.24
♂	9433 MU	DeadMan	IAPS		126	2.19	1.56	125	4.5	2.53	194	0.79	4.86
♂	2095 VI	Toddler	IAPS		37	2.08	1.32	36	4.61	2.61	39	4	3.69
♂	2141 VI	GrievingFem	IAPS		31	3.19	1.56	31	4.16	2.03	38	0.23	4.48
♂	2205 VI	Hospital	IAPS		120	2.67	1.74	120	3.73	1.99	197	0.81	6.49
♂	2276 VI	Girl	IAPS		31	3.9	1.54	31	3.58	1.84	38	1.7	4.18
♂	2399 VI	Woman	IAPS		42	4.26	0.99	42	3.38	1.62	42	1.33	3.82

♂	2455 VI	SadGirls	IAPS	116	3.63	1.77	115	3.68	1.85	193	-0.5	7.46
♂	2490 VI	Man	IAPS	116	3.48	1.75	116	3.53	1.88	193	0.05	5.61
♂	2491 VI	SickMan	IAPS	31	4.61	1.28	31	3.58	1.86	38	-0.8	4.23
♂	2520 VI	ElderlyMan	IAPS	132	4.42	1.67	132	3.67	1.86	196	1.81	4.73
♂	2590 VI	ElderlyWoman	IAPS	121	4.63	1.71	121	4.13	1.86	193	0.1	6.21
♂	2700 VI	Woman	IAPS	127	3.47	1.58	126	3.88	1.86	194	0.3	5.78
♂	2703 VI	SadChildren	IAPS	110	2.32	1.6	110	3.93	2.31	193	1.22	6.25
♂	2800 VI	SadChild	IAPS	131	2.21	1.59	131	4.33	2.6	194	2.05	5.52
♂	2810 VI	Boy	IAPS	121	4.18	1.48	121	4.26	2.02	196	0.28	4.91
♂	2811 VI	gun	IAPS	13	2.62	1.71	13	5.62	2.4	41	2.38	2.82
♂	2900 VI	CryingBoy	IAPS	121	3.29	1.65	121	4.01	2.14	192	1.32	6.63
♂	3280 VI	DentalExam	IAPS	116	3.67	1.69	115	3.9	1.86	192	0.59	5.63
♂	3500 VI	Attack	IAPS	15	1.93	1.44	15	6.27	2.6	41	1.48	6.39
♂	3530 VI	Attack	IAPS	12	2.92	1.08	12	4.83	2.37	41	-1	6.45
♂	6231 VI	Aimedgun	IAPS	15	2.93	1.67	15	5.47	2.13	41	2.87	5.18
♂	6242 VI	Gang	IAPS	13	3.23	1.92	13	5.62	2.26	41	2.2	5.25
♂	6313 VI	Attack	IAPS	15	1.8	1.01	15	6.2	2.34	41	2.67	4.45
♂	6315 VI	BeatenFem	IAPS	12	3.08	1.62	12	4.42	2.47	41	2.77	5.85
♂	6350 VI	Attack	IAPS	12	2.42	1.51	12	4.5	2.11	41	2.8	6.13
♂	6360 VI	Attack	IAPS	8	1.88	0.99	8	4.13	2.9	41	3.97	5.55
♂	6510 VI	Attack	IAPS	15	1.8	1.42	15	6	2.67	41	2.49	8.39
♂	6540 VI	Attack	IAPS	6	3	1.79	6	4.17	2.71	41	3.83	6.22
♂	6550 VI	Attack	IAPS	6	3	1.79	6	3.33	2.34	41	4.71	5.74
♂	6571 VI	CarTheft	IAPS	15	2	1.56	15	5.73	2.63	40	3.01	5.83
♂	9190 VI	Woman	IAPS	37	4.03	1.59	36	3.25	1.78	39	2.17	6.68
♂	9265 VI	HungMan	IAPS	42	2.45	1.63	42	4.5	2.39	42	3.01	4.88
♂	9410 VI	Soldier	IAPS	37	1.73	1.26	35	5.23	2.57	39	5.03	4.6
♂	9421 VI	Soldier	IAPS	121	2.98	1.77	121	4.56	2.34	193	1.23	6.8
♂	9429 VI	Assault	IAPS	121	3.29	1.67	121	4.12	2.06	197	0.79	6.87
♂	9520 VI	Kids	IAPS	127	3.1	1.79	126	4.21	2.17	194	1.04	5.83
♂	9530 VI	Boys	IAPS	110	3.35	1.85	110	3.46	1.91	193	-0.1	5.62
♂	9926 VI	Flood	IAPS	132	3.58	1.93	132	4.39	2.26	196	0.85	6.07

♂	6000 UO	Prison	IAPS	36	4.28	1.52	36	3.31	2	39	0.58	4.1
♂	6020 UO	ElectricChair	IAPS	134	3.27	1.86	134	4.13	2.21	237	0.91	5.46
♂	6190 UO	Aimedgun	IAPS	42	4.21	1.52	42	4.12	1.99	42	2.03	3.84
♂	6200 UO	Aimedgun	IAPS	37	3.59	1.86	36	4.56	2.35	39	1.28	3.52
♂	6210 UO	Aimedgun	IAPS	46	4.52	1.62	46	4.22	2.05	79	0.59	4.7
♂	6230 UO	Aimedgun	IAPS	130	3.25	1.79	129	5	2.57	233	3.08	5.53
♂	6260 UO	Aimedgun	IAPS	127	3.83	2.05	127	4.96	2.33	233	3.33	5.64
♂	6410 UO	Aimedgun	IAPS	42	4.9	1.54	42	3.95	1.74	42	3.06	4.55
♂	9010 UO	BarbedWire	IAPS	44	4.41	1.37	44	4.16	1.84	79	0.63	4.66
♂	9090 UO	Exhaust	IAPS	139	3.71	1.74	138	3.82	2.02	234	1.06	6.6
♂	9110 UO	Puddle	IAPS	135	3.58	1.62	135	3.65	1.93	236	1.82	5.9
♂	9290 UO	Garbage	IAPS	127	3.17	1.66	127	3.57	2.04	238	-0.4	6.52
♂	9291 UO	garbage	IAPS	14	2.71	1.27	14	3.57	2.31	41	0.91	5.69
♂	9295 UO	garbage	IAPS	8	2.75	1.67	8	3.5	2.39	40	0.11	4.16
♂	9300 UO	Dirty	IAPS	122	2.29	1.6	123	3.99	2.52	232	1.53	4.85
♂	9301 UO	Toilet	IAPS	138	2.11	1.51	138	4.23	2.79	237	2.89	5.58
♂	9320 UO	Vomit	IAPS	129	2.53	1.63	128	3.63	2.42	235	1.35	6.35
♂	9373 UO	Garbage	IAPS	142	3.32	1.69	141	3.91	2.32	234	0.75	5.27
♂	9390 UO	Dishes	IAPS	31	4.13	1.52	30	3.9	1.94	38	-2.3	4.82
♂	9560 UO	DuckInOil	IAPS	129	2.35	1.59	128	4.27	2.49	232	2.31	5.8
♂	9600 UO	Ship	IAPS	133	2.84	1.81	133	4.33	2.42	238	1.4	7.76
♂	9620 UO	Shipwreck	IAPS	30	3.9	1.95	31	4.55	2.5	38	1.57	4.32
♂	9621 UO	Ship	IAPS	141	3.46	1.74	140	4.84	2.16	235	-0.1	7.01
♂	9901 UO	CarAccident	IAPS	121	2.71	1.69	121	4.15	2.22	195	0.97	5.37
♂	9911 UO	CarAccident	IAPS	141	2.79	1.74	140	4.57	2.4	234	1.73	6.4
♂	9912 UO	Firefighter	IAPS	136	3.27	1.65	136	4.18	2.07	232	1.35	5.44
♂	7000 NO	RollingPin	IAPS	116	4.98	1.19	116	3.33	2	234	-0.5	6.73
♂	7002 NO	Towel	IAPS	133	4.95	1.07	133	3.55	1.85	237	-0.7	5.76
♂	7004 NO	Spoon	IAPS	121	4.99	1.55	121	3.4	2.08	195	-1.1	6.37
♂	7006 NO	Bowl	IAPS	130	4.84	1.06	129	3.45	1.88	235	0.35	5.29
♂	7009 NO	Mug	IAPS	124	4.97	1.29	124	3.48	2.09	237	1.28	7.66
♂	7010 NO	Basket	IAPS	122	4.91	1.11	122	3.63	1.81	234	0.15	4.95

♂	7020 NO	Fan	IAPS	41	4.9	0.49	42	3.14	1.87	42	1.14	3.76
♂	7030 NO	Iron	IAPS	111	4.77	1.33	110	3.5	2.08	233	1.58	7.11
♂	7034 NO	Hammer	IAPS	133	4.88	1.24	133	3.62	1.94	236	0.88	6.34
♂	7038 NO	Shoes	IAPS	37	4.73	1.26	36	2.92	2.14	39	1.23	4.34
♂	7040 NO	DustPan	IAPS	118	4.72	1.43	118	3.16	2.08	235	0.98	7.17
♂	7041 NO	Baskets	IAPS	122	4.78	1.22	122	3.48	1.86	233	0.59	5.88
♂	7050 NO	hairdryer	IAPS	3	5	0	3	4.67	0.58	41	-0	4.91
♂	7052 NO	Clothespins	IAPS	119	5.12	1.4	118	3.46	2.1	234	1.09	5.1
♂	7053 NO	Candlestick	IAPS	130	4.98	1.31	130	3.66	1.98	233	0.94	6.37
♂	7054 NO	Glass	IAPS	111	4.35	1.34	111	3.44	2.02	234	0.76	5.19
♂	7055 NO	Lightbulb	IAPS	132	4.95	1.23	133	3.43	2	237	0.84	5.04
♂	7056 NO	Tool	IAPS	124	5.02	1.43	124	3.55	2.04	238	2.59	6.26
♂	7059 NO	Keyring	IAPS	124	4.85	1.19	124	3.64	1.79	234	0.79	4.75
♂	7080 NO	Fork	IAPS	31	5	1.37	31	3.1	1.9	38	2.29	4.11
♂	7090 NO	Book	IAPS	31	5.48	1.15	31	3.9	2.2	38	-0.3	3.91
♂	7110 NO	Hammer	IAPS	37	4.68	1.11	37	3.05	2.07	39	0.72	3.01
♂	7130 NO	Truck	IAPS	37	5.03	1.34	36	3	1.9	39	1.51	3.73
♂	7140 NO	Bus	IAPS	42	4.88	0.71	42	3.33	1.87	42	0.53	3.89
♂	50006 NO	truck	FVLAB	31	5.23	1.09	31	3.32	1.87	38	1.48	6.96
♂	2102 NP	NeuMan	IAPS	129	5.14	1.4	128	3.54	2.19	235	1.4	5.93
♂	2104 NP	NeuWoman	IAPS	31	5.06	0.68	31	3.52	1.81	38	-1.3	2.92
♂	2107 NP	Male	IAPS	103	5.19	1.23	103	3.95	1.95	193	0.77	7.18
♂	2190 NP	Man	IAPS	41	5.05	0.59	42	3.33	1.82	42	0.96	3.48
♂	2191 NP	Farmer	IAPS	133	5.98	1.45	133	4.02	1.98	238	0.03	5.97
♂	2200 NP	NeutFace	IAPS	132	4.83	1.26	132	3.53	1.98	197	0.71	7.5
♂	2210 NP	NeutFace	IAPS	123	4.9	1.29	123	3.48	2.01	234	-0.3	5.95
♂	2214 NP	NeutMan	IAPS	132	4.83	1.29	132	3.73	2.08	197	0.62	7.6
♂	2215 NP	NeutMan	IAPS	116	4.91	1.24	115	3.29	1.98	193	0.4	5.51
♂	2220 NP	MaleFace	IAPS	37	5.08	1.26	36	3.5	2.09	194	2.58	5.46
♂	2221 NP	Judge	IAPS	42	4.55	1.04	42	3.81	1.97	195	2.52	6.06
♂	2230 NP	SadFace	IAPS	31	5.03	1.05	31	3.19	1.82	38	-0.4	4.54
♂	2235 NP	Butcher	IAPS	36	5.89	1.47	36	4.22	2.06	194	-0.4	7.9

♂	2305 NP	Woman	IAPS	129	5.97	1.78	128	4.41	2.4	235	1.02	5.95
♂	2312 NP	Mother	IAPS	127	4.64	1.97	125	3.99	2.09	194	1.2	6.78
♂	2358 NP	Family	IAPS	42	5.55	1.33	42	3.62	1.89	42	-0.1	4.18
♂	2372 NP	Woman	IAPS	37	5.51	1.76	37	3.84	2.13	193	1.66	5.98
♂	2383 NP	Secretary	IAPS	45	5.27	0.99	45	3.64	1.99	233	1.58	7.19
♂	2393 NP	Factoryworker	IAPS	124	5.35	1.49	124	4.13	1.99	231	1.21	7.09
♂	2396 NP	Couple	IAPS	133	5.08	1.43	132	3.73	1.93	235	0.68	4.91
♂	2397 NP	Men	IAPS	31	5.26	1	31	3.29	1.9	38	0.19	4.35
♂	2435 NP	Mom/Son	IAPS	135	5.64	1.47	134	4.13	1.97	234	0.05	5.39
♂	2441 NP	NeutralGirl	IAPS	50	5.18	1.61	49	3.51	2.31	232	1.31	5.31
♂	2485 NP	Man	IAPS	31	5.55	1.31	31	3.65	1.96	38	1.19	4.45
♂	2493 NP	NeutralMale	IAPS	31	5.39	1.09	31	3.35	1.92	193	0.88	4.49
♂	2495 NP	Man	IAPS	37	5.11	1.07	36	3.06	1.84	39	1.12	3.62
♂	2499 NP	NeutralMale	IAPS	31	5.32	1.38	31	3.58	1.93	38	2.06	5.98
♂	2500 NP	Man	IAPS	57	5.56	1.13	57	3.54	1.76	237	1.94	7.43
♂	2510 NP	ElderlyWoman	IAPS	31	6.65	1.47	31	3.61	1.98	38	0.83	3.57
♂	2512 NP	Man	IAPS	31	5.35	0.91	31	3.19	1.89	38	2.03	5.07
♂	2513 NP	Woman	IAPS	42	5.43	1.19	42	3.4	1.85	42	1.61	3.64
♂	2515 NP	Harvest	IAPS	37	6.3	1.71	36	4.67	2.59	193	0.85	7.63
♂	2570 NP	Man	IAPS	37	5.19	1.35	37	3.43	1.99	39	0.88	3.62
♂	2575 NP	Propeller	IAPS	134	5.29	1.32	134	3.57	1.94	238	0.82	4.84
♂	2579 NP	Bakers	IAPS	42	5.31	0.81	42	3.74	1.74	197	0.37	5.87
♂	2593 NP	Men	IAPS	31	5.87	1.23	31	4	2.21	193	-0.2	4.81
♂	2594 NP	City	IAPS	36	6.08	1.38	35	4.03	2.18	39	1.21	5.95
♂	2595 NP	Women	IAPS	39	5.54	1.21	39	3.92	1.99	234	1.01	7.38
♂	2597 NP	Market	IAPS	30	5.47	1.25	31	3.84	1.95	191	-0.6	7.06
♂	2598 NP	Family	IAPS	42	6.33	1.28	41	4.05	1.76	42	0	3.75
♂	2600 NP	Beer	IAPS	42	5.26	1.47	42	3.52	1.89	42	3.05	9.31
♂	2630 NP	Male	IAPS	46	5.07	0.93	46	3.39	1.79	233	-0.7	6.85
♂	2830 NP	Woman	IAPS	42	5.5	1.23	42	4.17	1.95	42	1.73	4.95
♂	2850 NP	Tourist	IAPS	31	5.65	1.28	31	3.71	2.12	192	-0.3	5.4
♂	7550 NP	Office	IAPS	55	5.22	0.74	55	3.58	1.81	237	0.7	5.6

♂	9070 NP	Boy	IAPS	134	4.88	1.79	134	3.75	1.88	235	1.93	6.27
♂	52006 NP	man	FVLAB	116	4.66	1.44	115	3.25	1.95	194	1.1	6.32
♂	52007 NP	man	FVLAB	132	4.95	1.18	131	3.47	1.88	197	0.91	4.85
♂	52008 NP	man face	FVLAB	42	4.67	1.2	42	3.26	1.78	42	0.13	3.8
♂	7350 FD	Pizza	IAPS	126	6.87	1.78	126	5.29	2.36	193	1.81	5.78
♂	7450 FD	Cheeseburger	IAPS	42	6.19	1.29	42	4.36	2.06	42	0.87	3.87
♂	7460 FD	FrenchFries	IAPS	121	6.63	1.77	121	5.07	2.21	190	1.53	6.51
♂	7480 FD	Pasta	IAPS	31	6.58	1.46	31	4.48	2.41	38	1.52	4.63
♂	7482 FD	Lamb	IAPS	41	6.71	1.55	41	4.71	2.17	42	1.73	3.09
♂	7485 FD	lamb and rice	IAPS	37	6.54	1.66	37	4.65	2.12	39	1.19	5.31
♂	22 FD	fried egg	OLAF	79	5.32	2.5	79	4.15	2.53	155	1.13	9.36
♂	37 FD	french fries	OLAF	26	6.69	1.72	26	4.92	2.04	41	0.42	6.99
♂	75 FD	french fries	OLAF	108	7.19	1.76	108	6.16	2.32	194	1.18	6.36
♂	655 FD	pizza	OLAF	26	6.46	2.12	26	4.88	2.57	41	1.92	7.05
♂	6054 FD	pizzaNONIAPS	OLAF	79	5.68	2.39	79	4.25	2.54	154	-0.9	8.98
♂	42055 FD	hamburger	FVLAB	26	7.08	1.29	26	5.77	1.77	41	2.4	7.33
♂	42056 FD	hot dogs	FVLAB	18	6.33	1.68	18	5.28	2.08	40	1.69	6.98
♂	42057 FD	chicken wings	FVLAB	18	6.67	1.85	18	5.83	2.57	41	1.26	5.56
♂	42058 FD	hamburger	FVLAB	20	7.2	1.94	20	5.35	2.58	41	2.82	6.14
♂	42067 FD	burger	FVLAB	103	6.24	2.04	103	4.94	2.46	196	0.37	5.87
♂	7270 FD	IceCream	IAPS	41	6.17	1.32	42	4.36	1.68	42	0.21	6.63
♂	7330 FD	IceCream	IAPS	138	7.3	1.73	139	5.48	2.36	232	1.08	4.7
♂	7340 FD	IceCream	IAPS	116	7.01	1.55	115	4.94	2.46	194	0.64	7.66
♂	7410 FD	Candy	IAPS	144	6.47	1.54	145	4.84	2.1	233	2.12	8.05
♂	7430 FD	Candy	IAPS	150	6.51	1.62	150	4.9	2.29	237	0.98	6.26
♂	7470 FD	Pancakes	IAPS	145	7	1.72	144	5.5	2.19	232	0.95	5.37
♂	96 FD	candies	OLAF	79	5.8	1.84	79	4.01	2.24	154	-0.2	8.03
♂	150 FD	pastries	OLAF	116	6.87	1.73	116	5.38	2.32	194	0.67	6.19
♂	40060 FD	pastries	FVLAB	99	6.77	1.73	99	4.84	2.4	194	1.07	5.66
♂	40061 FD	icecream	FVLAB	105	6.94	1.79	105	4.77	2.6	195	1.94	5.41
♂	40062 FD	pastries	FVLAB	105	6.85	1.75	105	4.97	2.57	196	0.97	5.89
♂	5250 LA	Nature	IAPS	37	5.76	1.46	37	4.24	2.33	39	0.56	4.24

♂	5626 LA	HangGlider	IAPS	37	7.27	1.52	36	6.08	2.5	39	0.91	4.39
♂	5628 LA	Mountains	IAPS	42	6.88	1.38	42	5.14	2.01	42	1.97	3.93
♂	5629 LA	Hiker	IAPS	31	6.71	1.47	31	5	2.5	38	1.82	3.89
♂	5631 LA	Mountains	IAPS	31	7	1.34	31	4.13	2.5	38	-0.3	4.98
♂	5660 LA	Mountains	IAPS	37	7.19	1.35	36	5.42	2.37	39	1.04	3.94
♂	5661 LA	Cave	IAPS	42	6.17	1.62	42	4.4	1.74	42	1.13	4.8
♂	5700 LA	Mountains	IAPS	31	6.52	1.71	31	4.58	2.29	38	0.62	4.02
♂	5711 LA	Field	IAPS	31	6.48	1.79	31	3.77	2.17	38	-0.5	4.98
♂	5764 LA	Field	IAPS	37	6.86	1.51	36	4.44	2.56	39	-2.2	4.2
♂	5780 LA	Nature	IAPS	40	7	1.32	41	4.39	2.45	42	0.97	2.21
♂	5781 LA	Lake	IAPS	42	6.76	1.34	42	4.19	2.12	42	-1.3	3.83
♂	2208 RO	Bride	IAPS	57	6.58	1.53	57	4.58	1.81	83	0.65	6.05
♂	4599 RO	Romance	IAPS	37	6.78	1.29	37	4.95	2.17	79	3.43	5.39
♂	4610 RO	Romance	IAPS	52	6.33	1.61	51	4.31	2.56	80	0.98	4.53
♂	4623 RO	Romance	IAPS	42	6.62	1.38	42	5.17	2.29	42	3.65	5.28
♂	4624 RO	Couple	IAPS	128	6.38	1.57	127	4.42	2.36	235	1.88	6.47
♂	4625 RO	Couple	IAPS	136	6.64	1.59	136	5.12	2.31	233	1.7	7.25
♂	4626 RO	Wedding	IAPS	37	7.3	1.56	35	5.31	2.34	39	4.36	4.73
♂	4628 RO	Wedding	IAPS	79	7.18	1.86	79	5.15	2.59	153	0.13	5.37
♂	4640 RO	Romance	IAPS	133	6.14	1.5	132	4.49	2.13	233	0.94	6.65
♂	4641 RO	Romance	IAPS	117	6.53	1.5	117	4.56	2.32	232	2.99	4.89
♂	4643 RO	EroticCouple	IAPS	140	6.54	1.73	139	5.57	2.29	234	1.76	7.7
♂	4645 RO	EroticCouple	IAPS	41	6.12	1.49	42	4.4	1.93	42	2.69	3.9
♂	4700 RO	Couple	IAPS	145	6.26	1.75	145	4.3	2.09	237	0.64	6.64
♂	44006 RO	people kissing	FVLAB	122	6.76	1.58	122	4.8	2.34	233	3.32	5.17
♂	44007 RO	romantic couple	FVLAB	140	6.39	1.89	140	5	2.25	235	0.79	5.22
♂	44008 RO	people kissing	FVLAB	124	6.89	1.69	123	5.22	2.46	234	3.15	5.64
♂	44009 RO	people kissing	FVLAB	134	6.59	1.65	134	4.73	2.18	237	2.16	5.74
♂	44010 RO	people kissing	FVLAB	141	6.77	1.66	139	5.49	2.35	233	3.87	5.76
♂	44011 RO	romantic couple	FVLAB	135	6.7	1.55	136	4.63	2.34	237	2.22	5.95
♂	44012 RO	wedding	FVLAB	118	6.89	1.79	118	4.86	2.38	231	0.78	5.86
♂	44015 RO	people kissing	FVLAB	127	6.14	1.83	126	4.68	2.2	194	1.64	5

♂	44021 RO	people kissing	FVLAB	121	6.52	1.78	121	4.97	2.27	193	1.62	5.33
♂	44022 RO	people kissing	FVLAB	42	6.07	1.24	42	3.98	1.96	42	3.87	3.9
♂	44023 RO	people kissing	FVLAB	42	6.1	1.14	42	4.43	1.84	42	3.59	4.14
♂	44024 RO	couple on beach	FVLAB	30	6.73	1.44	31	4.48	2	38	2.19	3
♂	4611 ER	EroticCouple	IAPS	129	7.33	1.64	128	5.59	2.64	233	3.99	5.69
♂	4647 ER	EroticCouple	IAPS	42	7.21	1.44	42	5.93	2.27	42	4.46	7.21
♂	4649 ER	EroticCouple	IAPS	31	7.48	1.41	30	6.1	2.62	38	2.71	3.94
♂	4650 ER	EroticCouple	IAPS	48	6.88	1.67	47	5.55	2.34	78	2.44	5.19
♂	4653 ER	EroticCouple	IAPS	57	7	1.39	57	5.33	2.22	83	2.54	6.81
♂	4658 ER	EroticCouple	IAPS	145	7.64	1.55	144	6.53	2.41	237	4.41	6
♂	4659 ER	EroticCouple	IAPS	123	7.54	1.59	122	5.99	2.8	232	3.1	5.9
♂	4660 ER	EroticCouple	IAPS	49	6.82	1.81	49	5.78	2.27	80	3.45	4.55
♂	4666 ER	EroticCouple	IAPS	37	7.54	1.54	35	6.77	2.09	39	3.45	5.11
♂	4669 ER	EroticCouple	IAPS	135	7.63	1.5	135	6.39	2.29	234	2.92	7.05
♂	4676 ER	EroticCouple	IAPS	37	7.11	1.81	36	5.75	2.71	39	5.95	6.21
♂	4677 ER	EroticCouple	IAPS	136	7.21	1.56	136	5.56	2.62	237	3.97	5.19
♂	4680 ER	EroticCouple	IAPS	140	7.53	1.45	140	6.56	2.27	237	4.73	7.14
♂	4687 ER	EroticCouple	IAPS	135	7.31	1.64	136	5.61	2.57	238	2.07	7.75
♂	4689 ER	EroticCouple	IAPS	31	7.06	1.41	31	5.68	2.51	38	3.1	6.47
♂	4690 ER	EroticCouple	IAPS	127	7.6	1.59	127	6.35	2.54	234	3.98	5.85
♂	4691 ER	EroticCouple	IAPS	116	7.78	1.51	116	6.05	2.84	234	3.31	5.7
♂	4693 ER	EroticCouple	IAPS	147	7.54	1.53	147	6.35	2.36	238	4.67	6.14
♂	4694 ER	EroticCouple	IAPS	42	7.12	1.35	42	5.43	2.33	42	4.78	5.35
♂	4695 ER	EroticCouple	IAPS	121	7.6	1.45	121	6.26	2.57	193	3.77	6.31
♂	4696 ER	EroticCouple	IAPS	131	7.21	1.79	130	5.62	2.58	234	1.51	6.29
♂	4698 ER	EroticCouple	IAPS	133	7.38	1.56	133	6.04	2.34	234	4.03	6.99
♂	4783 ER	EroticCouple	IAPS	79	7.76	1.44	79	6	2.74	154	4.41	7.69
♂	4800 ER	EroticCouple	IAPS	135	7.76	1.47	134	6.8	2.31	233	3.9	6.9
♂	4810 ER	EroticCouple	IAPS	37	7.68	1.58	36	6.58	2.52	39	5.27	4.39
♂	46017 ER	EroticCouple	FVLAB	79	7.66	1.71	79	6.01	2.73	155	4.11	6.19
♂	24000 CI	cigarette	FVLAB	37	4.24	1.75	36	3.58	2.09	39	1.37	3.26
♂	24001 CI	cigarette	FVLAB	121	4.91	2.03	121	3.88	2.07	197	2.76	5.7

♂	24002	CI	cigarette	FVLAB	129	4.66	2.11	128	4.27	2.24	193	2.5	5.46
♂	24003	CI	cigarette	FVLAB	116	4.8	2.12	117	3.79	2.23	193	1.53	8.68
♂	24004	CI	cigarette	FVLAB	123	4.76	1.97	123	4.39	2.18	192	2.37	8.69
♂	24005	CI	cigarette	FVLAB	110	4.45	2.03	110	3.83	2.09	193	1.35	7
♂	24006	CI	cigarette and ashtray	FVLAB	121	4.84	1.95	121	4.07	2.27	193	1.32	7.43
♂	24007	CI	cigarette	FVLAB	41	4.29	1.19	41	3.32	1.46	42	1.82	2.41
♂	24008	CI	smoking paraphernalia	FVLAB	123	5.22	1.9	123	4.23	2.04	193	-0.3	5.9
♂	24009	CI	cigarette	FVLAB	118	4.85	2.15	117	4.1	2.25	194	2	6.19
♂	24010	CI	cigarette	FVLAB	121	4.85	1.98	121	4.3	2.27	192	1.66	5.85
♂	24011	CI	cigarette	FVLAB	42	4.79	1.37	42	3.57	1.71	42	1.15	3.84
♂	24012	CI	cigarette pack	FVLAB	118	4.82	2.17	118	3.75	2.3	192	1.17	5.49
♂	24013	CI	cigarette	FVLAB	42	4.52	1.21	42	3.71	1.58	42	0.95	4.8
♂	24014	CI	cigarette pack	FVLAB	132	5.19	2	132	4.36	2.17	196	2.93	5.07
♂	Cbc404	CI	cigarette and ashtray	Carter01	116	4.78	2.24	115	3.6	2.16	193	0.81	6.43
♂	Cbc417	CI	cigarette and ashtray	Carter01	134	4.78	1.82	134	4.11	2.09	197	2.3	4.63
♂	Cqr545	CI	cigarette and ashtray	Carter02	118	4.94	2.2	117	3.91	2.21	194	2.1	5.67
♂	NAPS001	CI	cigarette and ashtray	NAPS	121	4.84	2	121	3.83	2.14	196	0.58	6.79
♂	NAPS006	CI	cigarette and ashtray	NAPS	120	5.01	1.84	120	4.18	1.98	191	-0.1	5.5
♂	Sisis020r	CI	cigarette	ISIS	37	4.35	2.04	36	2.97	1.7	39	1.46	2.78
♂	Sisis034r	CI	cigarette	ISIS	31	4.48	1.52	31	3.35	1.98	38	2.26	4.22
♂	Sisis088l	CI	cigarette	ISIS	30	4.5	1.46	31	3.19	1.82	38	0.79	4.51
♂	Sisis111r	CI	cigarette	ISIS	42	4.6	1.25	42	3.71	1.8	42	0.45	5.02
♂	22004	CI	person smoking	FVLAB	142	4.69	2.06	141	4.23	2.23	235	1.27	5.3
♂	Cbc401	CI	man smoking	Carter01	118	4.57	2.15	118	3.94	2.1	234	1.57	6.74
♂	Cbc402	CI	two people hugging	Carter01	37	5.32	1.92	37	4	1.97	39	1.83	4.43

♂	Cbc411	CI	man smoking	Carter01	31	4.39	1.65	31	3.39	1.94	38	2.55	4.26
♂	Cbc412	CI	two people talking	Carter01	42	5	1.31	42	4.1	1.68	42	1.83	5.1
♂	Cqr433	CI	man smoking	Carter02	30	5.27	1.86	31	3.81	2.12	38	-0.7	4.19
♂	Cqr443	CI	person smoking	Carter02	44	4.14	1.72	44	3.59	1.94	233	1.98	5
♂	Sisis001r	CI	woman smoking	ISIS	52	3.94	1.7	51	4	1.88	235	2.29	5.44
♂	Sisis003r	CI	woman smoking	ISIS	135	4.81	1.94	135	3.91	2.07	233	1.59	4.97
♂	Sisis004l	CI	man smoking	ISIS	36	4.5	1.87	36	3.86	2.06	193	2.27	4.54
♂	Sisis007l	CI	man with cigarette	ISIS	41	4.61	1.16	42	3.81	1.42	196	2.36	4.61
♂	Sisis008l	CI	man with cigarette	ISIS	37	4.43	1.85	36	3.58	1.98	39	2.61	3.11
♂	Sisis010l	CI	man smoking	ISIS	45	4.31	1.78	44	3.8	2.08	235	1.58	7.94
♂	Sisis016r	CI	man smoking	ISIS	42	4.5	1.37	41	3.9	1.88	42	2.56	4.17
♂	Sisis017l	CI	man smoking	ISIS	41	4.73	1.3	40	3.38	1.93	196	1.79	4.87
♂	Sisis019r	CI	man smoking	ISIS	132	4.82	1.71	132	4.02	1.98	197	1.85	7.69
♂	Sisis022l	CI	man smoking	ISIS	31	4.42	1.54	31	3.26	2.03	193	2.07	5.29
♂	Sisis029l	CI	men smoking	ISIS	116	4.75	2.16	115	4.07	2.27	193	1.73	7.18
♂	Sisis030r	CI	man smoking	ISIS	127	4.97	1.75	127	4.17	2.26	232	1.05	5.24
♂	Sisis031l	CI	man smoking	ISIS	42	4.71	1.17	42	3.57	1.47	196	0.83	8.11
♂	Sisis033r	CI	man smoking	ISIS	37	4.38	1.92	36	3.03	1.76	193	1.22	4.87
♂	Sisis038l	CI	man smoking	ISIS	129	4.69	2.01	128	3.96	2.17	234	1.72	7.62
♂	Sisis047r	CI	man smoking	ISIS	133	4.89	1.9	132	4.18	2.15	233	1.56	6.25
♂	Sisis055r	CI	woman smoking	ISIS	126	5.04	2.09	126	3.94	2.04	237	1.67	5.29
♂	Sisis058l	CI	woman smoking	ISIS	147	4.46	1.84	147	4.09	2.07	238	1.85	5.77
♂	Sisis062r	CI	man smoking	ISIS	44	4.2	1.86	44	3.36	1.88	233	2.42	7.28
♂	Sisis063r	CI	person smoking	ISIS	42	4.86	1.26	42	3.81	1.6	42	2.06	4.2
♂	Sisis068l	CI	woman smoking	ISIS	110	5.05	1.96	110	3.88	2.06	192	2.21	7.04
♂	Sisis070r	CI	woman smoking	ISIS	132	5	1.85	132	4.3	2.12	195	1.29	5.35
♂	Sisis073r	CI	women smoking	ISIS	42	4.57	1.48	42	3.74	1.55	195	0.94	5.67
♂	Sisis081r	CI	woman smoking	ISIS	129	4.95	2.14	128	3.88	2.09	233	2.18	4.95
♂	Sisis089l	CI	woman smoking	ISIS	37	3.92	2.01	35	3.23	1.9	193	1.79	5.33

♂	Sisis091r	CI	man smoking	ISIS	37	4.46	1.95	37	3.7	2.04	39	2.72	3.86
♂	Sisis092r	CI	person smoking	ISIS	29	4.62	1.54	31	3.39	1.76	38	2.88	3.6
♂	Sisis093r	CI	man smoking	ISIS	37	4.32	1.56	36	3.11	1.77	194	1.45	8.32
♂	Sisis097r	CI	person smoking	ISIS	37	4.49	1.71	35	3.43	2.06	39	0.92	5.11
♂	Sisis099r	CI	man smoking	ISIS	42	4.52	1.15	42	3.43	1.78	42	2.36	3.73
♂	Sisis100r	CI	man smoking	ISIS	56	4.32	1.45	56	3.71	1.67	238	1.86	5
♂	Sisis101r	CI	woman smoking	ISIS	132	4.85	1.73	132	4.16	2.22	196	2.53	6.43
♂	Sisis103r	CI	person smoking	ISIS	42	4.74	1.19	42	3.74	1.74	42	1.98	3.38
♂	Sisis104r	CI	woman smoking	ISIS	124	4.49	2.11	124	3.88	2.2	233	1.29	6.37
♂	Sisis106r	CI	man smoking	ISIS	37	4.27	1.84	36	3.22	1.77	192	1.09	6.67
♂	Sisis107r	CI	man smoking	ISIS	49	4.16	1.82	49	3.69	1.97	234	1.62	6.37
♂	Sisis108r	CI	man smoking	ISIS	120	4.95	1.74	121	4	2.14	193	1.66	5.51
♂	Sisis115r	CI	man smoking	ISIS	31	4.52	1.59	31	3.55	1.98	38	2.44	3.35
♂	Sisis116r	CI	man smoking	ISIS	31	4.42	1.59	31	3.1	1.83	38	1.95	3.83
♂	Sisis118r	CI	man smoking	ISIS	30	4.53	1.53	30	3.6	1.99	38	2.41	5.41
♂	Sisis120r	CI	people smoking	ISIS	31	4.35	1.76	31	3.03	1.78	38	1.19	4.32
	ID	Content	description	Source Catalog	Valence N	Valence M	Valence SD	Arousal N	Arousal M	Arousal SD	LPP N	LPP M	LPP SD
NS	3000 MU	Mutilation	IAPS	102	1.67	1.57	102	5.17	3	254	4.52	7.88	
NS	3030 MU	Mutilation	IAPS	108	1.91	1.32	108	4.86	2.56	255	3.65	5.62	
NS	3051 MU	Mutilation	IAPS	104	1.68	1.33	104	4.96	2.82	253	4.62	5.59	
NS	3053 MU	BurnVictim	IAPS	108	1.66	1.61	108	5.69	2.87	255	3.47	7.27	
NS	3060 MU	Mutilation	IAPS	109	1.75	1.53	109	5.1	2.92	253	3.14	6.32	
NS	3068 MU	Mutilation	IAPS	101	1.59	1.34	101	5.42	2.71	256	3.13	6.25	
NS	3069 MU	Mutilation	IAPS	101	1.62	1.41	101	5.68	3.07	252	3.81	5.8	
NS	3080 MU	Mutilation	IAPS	102	1.58	1.14	102	5.07	3	255	2.8	5.6	
NS	3100 MU	BurnVictim	IAPS	110	1.8	1.46	110	4.83	2.72	254	3.8	6.3	
NS	3101 MU	BurntFace	IAPS										
NS	3102 MU	BurnVictim	IAPS										
NS	3110 MU	BurnVictim	IAPS	102	1.57	1.15	102	5.34	2.98	255	2.63	7.06	
NS	3120 MU	DeadBody	IAPS	102	1.79	1.4	102	4.62	2.85	254	4.18	6.89	
NS	3130 MU	Mutilation	IAPS	101	1.95	1.62	101	5.41	2.8	254	3.14	6.18	

NS	3140 MU	DeadBody	IAPS	50	1.66	1.24	50	5.24	2.64	161	2.83	6.9
NS	3168 MU	Mutilation	IAPS									
NS	3170 MU	BabyTumor	IAPS	102	1.64	1.57	102	5.31	2.95	254	3.84	5.31
NS	3225 MU	Mutilation	IAPS	52	1.79	1.33	52	5.13	2.52	161	4.08	6.78
NS	3261 MU	Tumor	IAPS	101	1.42	1.15	101	5.4	3.02	255	3.24	6.2
NS	3300 MU	DisabledChild	IAPS									
NS	3350 MU	Infant	IAPS									
NS	9253 MU	Mutilation	IAPS									
NS	9420 MU	Soldier	IAPS	51	1.63	1.47	51	4.27	2.89	94	0.6	5.55
NS	9433 MU	DeadMan	IAPS	50	2.06	1.74	50	4.82	2.81	95	0.4	4.8
NS	2095 VI	Toddler	IAPS									
NS	2141 VI	GrievingFem	IAPS									
NS	2205 VI	Hospital	IAPS	51	2.67	2.03	51	3.82	2.41	94	0.06	5.87
NS	2276 VI	Girl	IAPS									
NS	2399 VI	Woman	IAPS									
NS	2455 VI	SadGirls	IAPS	51	4	2.34	51	3.49	1.84	94	-0.6	5.85
NS	2490 VI	Man	IAPS	51	3.51	1.9	51	3.65	1.97	95	-0.2	5.58
NS	2491 VI	SickMan	IAPS									
NS	2520 VI	ElderlyMan	IAPS	50	4.6	1.94	50	3.04	1.87	95	2.44	5.37
NS	2590 VI	ElderlyWoman	IAPS	50	4.56	1.95	50	3.88	2.12	95	-0.3	5.6
NS	2700 VI	Woman	IAPS	50	3	1.74	50	3.92	2.15	93	0.8	5.45
NS	2703 VI	SadChildren	IAPS	51	2	1.71	51	3.69	2.76	94	0.67	4.78
NS	2800 VI	SadChild	IAPS	50	2.26	2.07	50	4.44	2.64	94	2.31	6.1
NS	2810 VI	Boy	IAPS	51	3.53	1.84	51	3.96	2.53	95	1.37	5.64
NS	2811 VI	gun	IAPS	53	1.92	1.38	53	5.87	2.47	160	2.62	4.52
NS	2900 VI	CryingBoy	IAPS	50	2.48	1.58	50	3.74	2.45	94	-0.1	7.71
NS	3280 VI	DentalExam	IAPS	51	3.41	1.76	51	3.96	1.9	94	1.39	4.4
NS	3500 VI	Attack	IAPS	52	2	1.4	52	5.75	2.44	160	1.25	6.1
NS	3530 VI	Attack	IAPS	59	2.15	1.32	59	5.71	2.21	161	0.97	5.7
NS	6231 VI	Aimedgun	IAPS	50	2.52	1.72	50	5.18	2.32	161	2.65	5.59
NS	6242 VI	Gang	IAPS	51	2.69	1.86	51	5.18	2.39	161	2.15	7.83
NS	6313 VI	Attack	IAPS	50	1.88	1.41	50	5.44	2.51	161	3.35	4.46

NS	6315 VI	BeatenFem	IAPS	59	2.12	1.3	59	5.32	2.31	161	2.53	6.28
NS	6350 VI	Attack	IAPS	59	2.03	1.3	59	5.81	2.43	160	2.66	5.84
NS	6360 VI	Attack	IAPS	50	2.1	1.47	50	5.18	2.51	161	2.56	5.45
NS	6510 VI	Attack	IAPS	52	1.98	1.46	52	5.79	2.57	160	3.46	7.15
NS	6540 VI	Attack	IAPS	51	1.84	1.24	51	5.57	2.63	160	2.74	5.87
NS	6550 VI	Attack	IAPS	51	1.65	1.21	51	5.43	2.58	160	4.23	5.56
NS	6571 VI	CarTheft	IAPS	52	2.27	1.55	52	5.56	2.47	160	2.87	5.49
NS	9190 VI	Woman	IAPS									
NS	9265 VI	HungMan	IAPS									
NS	9410 VI	Soldier	IAPS									
NS	9421 VI	Soldier	IAPS	50	2.42	1.64	50	4.34	2.54	95	1.83	7.13
NS	9429 VI	Assault	IAPS	51	2.82	1.86	51	4.53	2.47	95	0.46	4.5
NS	9520 VI	Kids	IAPS	50	2.44	1.67	50	3.96	2.63	95	0.04	5.46
NS	9530 VI	Boys	IAPS	51	2.71	1.87	51	3.49	2.08	92	-0.7	4.07
NS	9926 VI	Flood	IAPS	50	3.12	2.1	50	4.3	2.57	95	0.85	4.58
NS	6000 UO	Prison	IAPS									
NS	6020 UO	ElectricChair	IAPS	102	2.51	1.81	102	4.07	2.53	253	1.72	4.86
NS	6190 UO	Aimedgun	IAPS									
NS	6200 UO	Aimedgun	IAPS									
NS	6210 UO	Aimedgun	IAPS	50	3.18	1.81	50	4.98	2.08	161	0.54	6.15
NS	6230 UO	Aimedgun	IAPS	109	2.66	1.93	109	5.46	2.6	253	2.7	5.29
NS	6260 UO	Aimedgun	IAPS	101	2.44	1.86	101	5.2	2.65	255	3.16	5.47
NS	6410 UO	Aimedgun	IAPS									
NS	9010 UO	BarbedWire	IAPS	53	4.21	1.5	53	4.02	1.88	161	0.8	6.68
NS	9090 UO	Exhaust	IAPS	109	3.39	1.96	109	3.79	2.18	255	1.37	6.8
NS	9110 UO	Puddle	IAPS	101	3.34	1.75	101	3.86	2.04	255	1.76	6.41
NS	9290 UO	Garbage	IAPS	102	2.82	1.9	102	3.94	2.3	254	0.21	6.5
NS	9291 UO	garbage	IAPS	58	2.71	1.76	58	4.5	2.12	161	0.58	7.52
NS	9295 UO	garbage	IAPS	50	2.12	1.47	50	4.38	2.2	159	0.33	5.81
NS	9300 UO	Dirty	IAPS	102	1.9	1.49	102	4.29	2.75	254	1.39	5.25
NS	9301 UO	Toilet	IAPS	101	1.87	1.4	101	4.75	2.9	254	3.04	6.1
NS	9320 UO	Vomit	IAPS	104	2	1.58	104	4.47	2.82	256	1.91	6.66





NS	2513 NP	Woman	IAPS								
NS	2515 NP	Harvest	IAPS							92	0.99
NS	2570 NP	Man	IAPS								3.8
NS	2575 NP	Propeller	IAPS	109	4.97	1.22	109	3.66	1.94	256	0.76
NS	2579 NP	Bakers	IAPS							95	1.32
NS	2593 NP	Men	IAPS							95	0.3
NS	2594 NP	City	IAPS								4.48
NS	2595 NP	Women	IAPS	50	5.26	0.92	50	4.02	1.82	255	1.5
NS	2597 NP	Market	IAPS							95	-0.3
NS	2598 NP	Family	IAPS								7.01
NS	2600 NP	Beer	IAPS								
NS	2630 NP	Male	IAPS	52	5.44	1.33	52	4	1.83	255	0.15
NS	2830 NP	Woman	IAPS								
NS	2850 NP	Tourist	IAPS							93	0.14
NS	7550 NP	Office	IAPS	51	5.2	0.98	51	4.06	1.8	252	1.27
NS	9070 NP	Boy	IAPS	100	5.13	1.99	100	4.06	2.02	256	2.1
NS	52006 NP	man	FVLAB	51	4.59	1.55	51	3.47	2.01	95	0.61
NS	52007 NP	man	FVLAB	50	4.84	1.43	50	3.42	1.85	93	0.67
NS	52008 NP	man face	FVLAB								
NS	7350 FD	Pizza	IAPS	50	6.96	1.92	50	5.38	2.05	93	1.23
NS	7450 FD	Cheeseburger	IAPS								
NS	7460 FD	FrenchFries	IAPS	50	7	1.98	50	5.18	2.63	94	2.1
NS	7480 FD	Pasta	IAPS								
NS	7482 FD	Lamb	IAPS								
NS	7485 FD	lamb and rice	IAPS								
NS	22 FD	fried egg	OLAF	51	5.33	2.42	51	4.25	2.26	95	0.88
NS	37 FD	french fries	OLAF	93	6.2	1.94	93	4.82	2.2	160	-0.2
NS	75 FD	french fries	OLAF	138	6.38	2.15	138	5.22	2.29	255	0.05
NS	655 FD	pizza	OLAF	93	6.22	1.83	93	4.74	2.12	161	1.99
NS	6054 FD	pizzaNONIAPS	OLAF	51	5.73	2.76	51	4.78	2.49	95	0.57
NS	42055 FD	hamburger	FVLAB	93	6.8	1.79	93	5.25	1.91	161	1.73
NS	42056 FD	hot dogs	FVLAB	88	5.39	2.11	88	4.52	1.99	160	1.6

NS	42057 FD	chicken wings	FVLAB	88	6.36	1.78	88	4.97	2.2	161	0.57	6.89
NS	42058 FD	hamburger	FVLAB	87	6.36	2.11	87	4.97	2.04	161	2.13	5.16
NS	42067 FD	burger	FVLAB	145	5.66	2.15	145	4.84	2.08	255	1.44	5.23
NS	7270 FD	IceCream	IAPS									
NS	7330 FD	IceCream	IAPS	138	7.05	1.82	138	5.53	2.36	256	1.38	5.92
NS	7340 FD	IceCream	IAPS	51	7.88	1.49	51	5.53	2.69	95	2.04	4.56
NS	7410 FD	Candy	IAPS	144	6.42	1.66	144	4.85	2.22	256	1.86	5.57
NS	7430 FD	Candy	IAPS	138	6.38	1.76	138	4.86	2.22	254	1.73	5.68
NS	7470 FD	Pancakes	IAPS	138	6.94	1.8	138	5.24	2.19	255	0.87	5.1
NS	96 FD	candies	OLAF	51	5.84	1.92	51	4.27	2.36	94	0.29	4.81
NS	150 FD	pastries	OLAF	143	6.73	1.88	143	5.08	2.13	255	1.54	6.14
NS	40060 FD	pastries	FVLAB	138	6.59	1.77	138	4.97	2.16	255	1.32	5.54
NS	40061 FD	icecream	FVLAB	144	6.9	1.7	144	4.97	2.41	255	1.98	5.06
NS	40062 FD	pastries	FVLAB	144	6.57	1.78	144	4.85	2.4	254	1.45	7.15
NS	5250 LA	Nature	IAPS									
NS	5626 LA	HangGlider	IAPS									
NS	5628 LA	Mountains	IAPS									
NS	5629 LA	Hiker	IAPS									
NS	5631 LA	Mountains	IAPS									
NS	5660 LA	Mountains	IAPS									
NS	5661 LA	Cave	IAPS									
NS	5700 LA	Mountains	IAPS									
NS	5711 LA	Field	IAPS									
NS	5764 LA	Field	IAPS									
NS	5780 LA	Nature	IAPS									
NS	5781 LA	Lake	IAPS									
NS	2208 RO	Bride	IAPS	50	7.06	1.82	50	5.28	1.98	161	1.04	7.22
NS	4599 RO	Romance	IAPS	51	6.69	1.39	51	4.63	2.1	161	2.43	7.01
NS	4610 RO	Romance	IAPS	52	6.63	1.53	52	4.17	2.34	160	2.03	5.36
NS	4623 RO	Romance	IAPS									
NS	4624 RO	Couple	IAPS	110	6.83	1.51	110	4.61	2.25	254	2.11	5.23
NS	4625 RO	Couple	IAPS	100	6.99	1.71	100	5.17	2.41	255	1.29	7.51



NS	4687 ER	EroticCouple	IAPS	101	7.01	1.81	101	5.76	2.45	255	3.07	6.5
NS	4689 ER	EroticCouple	IAPS									
NS	4690 ER	EroticCouple	IAPS	101	6.5	2.1	101	5.3	2.6	255	4.08	6.34
NS	4691 ER	EroticCouple	IAPS	102	6.76	1.93	102	5.55	2.57	255	3.8	5.98
NS	4693 ER	EroticCouple	IAPS	102	7.17	1.67	102	6.06	2.62	256	4.48	6.3
NS	4694 ER	EroticCouple	IAPS									
NS	4695 ER	EroticCouple	IAPS	50	7.44	1.7	50	5.6	2.75	94	3.05	5.83
NS	4696 ER	EroticCouple	IAPS	101	6.88	1.81	101	5.38	2.23	251	2.02	6.56
NS	4698 ER	EroticCouple	IAPS	109	6.81	1.83	109	5.53	2.46	256	3.86	7.21
NS	4783 ER	EroticCouple	IAPS	51	7.2	1.65	51	5.63	2.64	94	4.01	6.56
NS	4800 ER	EroticCouple	IAPS	100	7.04	1.66	100	5.82	2.54	255	3.04	6.42
NS	4810 ER	EroticCouple	IAPS									
NS	46017 ER	EroticCouple	FVLAB	51	7.14	1.84	51	5.82	2.58	93	4.02	5.84
NS	24000 CI	cigarette	FVLAB									
NS	24001 CI	cigarette	FVLAB	60	2.97	2	60	3.25	2.36	95	2.72	5.53
NS	24002 CI	cigarette	FVLAB	57	2.93	1.74	57	3.93	2.58	93	0.94	4.42
NS	24003 CI	cigarette	FVLAB	58	3.12	1.8	58	3.21	2.18	93	2.07	5.41
NS	24004 CI	cigarette	FVLAB	57	3.23	1.86	57	3.53	2.46	94	2.24	6.11
NS	24005 CI	cigarette	FVLAB	60	2.73	1.96	60	3.35	2.13	94	2.5	4.76
NS	24006 CI	cigarette and ashtray	FVLAB	59	3.07	1.86	59	3.51	2.33	94	0.99	5.75
NS	24007 CI	cigarette	FVLAB									
NS	24008 CI	smoking paraphernalia	FVLAB	57	3.53	1.74	57	3.88	2.23	94	0.29	4.18
NS	24009 CI	cigarette	FVLAB	58	3	2.05	58	2.97	2.15	94	1.4	4.36
NS	24010 CI	cigarette	FVLAB	59	2.9	1.94	59	4.02	2.41	94	1.85	3.96
NS	24011 CI	cigarette	FVLAB									
NS	24012 CI	cigarette pack	FVLAB	58	3.1	1.96	58	3.07	2.29	95	1.33	6.09
NS	24013 CI	cigarette	FVLAB									
NS	24014 CI	cigarette pack	FVLAB	59	3.14	1.9	59	3.61	2.45	94	1.99	5.95
NS	Cbc404 CI	cigarette and ashtray	Carter01	60	2.98	2.11	60	3.23	2.14	94	0.97	4.54

NS	Cbc417	CI	cigarette and ashtray	Carter01	57	3.09	1.65	57	3.6	2.36	95	2.13	4.6	
NS	Cqr545	CI	cigarette and ashtray	Carter02	58	3.12	2.16	58	3.34	2.37	95	1.37	4.39	
NS	NAPS001	CI	cigarette and ashtray	NAPS	60	3.08	2.05	60	3	2.18	94	0.46	4.76	
NS	NAPS006	CI	cigarette and ashtray	NAPS	59	3.32	2.04	59	3.8	2.44	94	-0.1	5.71	
NS	Sisis020r	CI	cigarette	ISIS										
NS	Sisis034r	CI	cigarette	ISIS										
NS	Sisis088l	CI	cigarette	ISIS										
NS	Sisis111r	CI	cigarette	ISIS										
NS	22004	CI	person smoking	FVLAB	102	3.19	1.8	102	3.71	2.19	256	1.51	6.31	
NS	Cbc401	CI	man smoking	Carter01	101	2.81	1.82	101	3.75	2.29	256	1.75	4.69	
NS	Cbc402	CI	two people hugging	Carter01										
NS	Cbc411	CI	man smoking	Carter01										
NS	Cbc412	CI	two people talking	Carter01										
NS	Cqr433	CI	man smoking	Carter02										
NS	Cqr443	CI	person smoking	Carter02	53	3.19	2.06	53	3.92	1.9	255	2.12	4.56	
NS	Sisis001r	CI	woman smoking	ISIS	50	3.2	1.68	50	4.42	1.86	256	1.79	5.61	
NS	Sisis003r	CI	woman smoking	ISIS	109	2.95	1.81	109	3.25	2.1	253	2.05	7.1	
NS	Sisis004l	CI	man smoking	ISIS							95	1.57	4.95	
NS	Sisis007l	CI	man with cigarette	ISIS							91	1.79	6.01	
NS	Sisis008l	CI	man with cigarette	ISIS										
NS	Sisis010l	CI	man smoking	ISIS	50	3.04	1.64	50	3.98	2.13	256	1.51	6.26	
NS	Sisis016r	CI	man smoking	ISIS										
NS	Sisis017l	CI	man smoking	ISIS								93	1.12	5.55
NS	Sisis019r	CI	man smoking	ISIS	50	3.32	2.01	50	3.58	2.52	95	0.44	4.43	
NS	Sisis022l	CI	man smoking	ISIS								95	1.67	4.94



ID	Content	description	Source	Valence		Arousal		Arousal		LPP	
				Catalog	N	M	SD	N	M	SD	N
SM	3000 MU	Mutilation	IAPS		188	1.84	1.47	186	5.05	2.9	286
SM	3030 MU	Mutilation	IAPS		185	2.11	1.45	184	4.81	2.62	282
SM	3051 MU	Mutilation	IAPS		168	2.21	1.68	169	4.34	2.55	274
SM	3053 MU	BurnVictim	IAPS		178	1.65	1.32	179	5.04	2.96	279
SM	3060 MU	Mutilation	IAPS		182	2.11	1.54	182	4.81	2.69	280
SM	3068 MU	Mutilation	IAPS		188	1.91	1.72	186	5.15	2.92	287
SM	3069 MU	Mutilation	IAPS		178	1.87	1.4	178	5.1	2.98	280
SM	3080 MU	Mutilation	IAPS		169	1.97	1.55	168	4.7	2.65	272
SM	3100 MU	BurnVictim	IAPS		182	1.98	1.44	182	4.22	2.5	279
SM	3101 MU	BurntFace	IAPS		68	2.09	1.4	67	4.79	2.61	68
SM	3102 MU	BurnVictim	IAPS		62	1.92	1.44	62	3.98	2.49	60
SM	3110 MU	BurnVictim	IAPS		165	1.99	1.59	165	4.82	2.81	274
SM	3120 MU	DeadBody	IAPS		169	2.17	1.56	169	4.64	2.58	275
SM	3130 MU	Mutilation	IAPS		185	2.05	1.6	184	4.93	2.76	283
SM	3140 MU	DeadBody	IAPS		61	2.39	1.52	62	4.26	2.3	61
SM	3168 MU	Mutilation	IAPS		49	2.31	1.86	48	4	2.51	56
SM	3170 MU	BabyTumor	IAPS		178	1.73	1.33	178	4.7	2.74	279
SM	3225 MU	Mutilation	IAPS		49	2.65	1.71	49	4.12	2.5	56
SM	3261 MU	Tumor	IAPS		185	1.76	1.4	182	5.2	2.95	285
SM	3300 MU	DisabledChild	IAPS		68	2.93	1.61	68	4.41	2.01	68
SM	3350 MU	Infant	IAPS		49	2.84	1.92	48	4.1	2.24	56
SM	9253 MU	Mutilation	IAPS		49	2.33	1.49	49	4.37	2.47	56
SM	9420 MU	Soldier	IAPS		182	2.12	1.57	182	4.51	2.55	280
SM	9433 MU	DeadMan	IAPS		184	2.09	1.54	183	4.8	2.75	287
SM	2095 VI	Toddler	IAPS		68	1.84	1.25	67	4.99	2.64	68
SM	2141 VI	GrievingFem	IAPS		49	2.94	1.55	49	4.16	2.04	56
SM	2205 VI	Hospital	IAPS		181	2.76	1.85	181	3.96	2.11	280
SM	2276 VI	Girl	IAPS		49	3.51	1.61	49	3.84	1.9	56
SM	2399 VI	Woman	IAPS		62	3.95	1.25	62	3.11	1.68	61
SM	2455 VI	SadGirls	IAPS		188	3.77	1.71	186	3.83	1.81	285

SM	2490 VI	Man	IAPS	188	3.49	1.72	188	3.83	1.87	285	0.19	6.28
SM	2491 VI	SickMan	IAPS	49	4.41	1.34	49	3.67	1.94	56	-0.4	4.15
SM	2520 VI	ElderlyMan	IAPS	179	4.51	1.74	179	3.84	2.02	278	2.24	4.78
SM	2590 VI	ElderlyWoman	IAPS	166	4.52	1.7	166	4.1	1.83	275	0.47	6.25
SM	2700 VI	Woman	IAPS	185	3.33	1.57	183	4.06	1.97	286	0.41	6.04
SM	2703 VI	SadChildren	IAPS	169	2.28	1.61	169	4.34	2.45	275	1.13	6.28
SM	2800 VI	SadChild	IAPS	178	2.18	1.56	178	4.36	2.55	275	1.56	5.07
SM	2810 VI	Boy	IAPS	182	4.29	1.54	182	4.03	1.92	279	0.1	5.42
SM	2811 VI	gun	IAPS									
SM	2900 VI	CryingBoy	IAPS	166	3.14	1.64	166	4.12	2.04	273	1.27	7.12
SM	3280 VI	DentalExam	IAPS	188	3.88	1.8	187	4.22	2.14	286	0.51	8.09
SM	3500 VI	Attack	IAPS									
SM	3530 VI	Attack	IAPS									
SM	6231 VI	Aimedgun	IAPS									
SM	6242 VI	Gang	IAPS									
SM	6313 VI	Attack	IAPS									
SM	6315 VI	BeatenFem	IAPS									
SM	6350 VI	Attack	IAPS									
SM	6360 VI	Attack	IAPS									
SM	6510 VI	Attack	IAPS									
SM	6540 VI	Attack	IAPS									
SM	6550 VI	Attack	IAPS									
SM	6571 VI	CarTheft	IAPS									
SM	9190 VI	Woman	IAPS	68	4.12	1.34	67	3.57	1.69	68	1.92	8.09
SM	9265 VI	HungMan	IAPS	62	2.16	1.55	62	4.44	2.4	60	3.16	5.12
SM	9410 VI	Soldier	IAPS	68	1.63	1.14	65	5.57	2.73	68	4.18	6.46
SM	9421 VI	Soldier	IAPS	166	2.8	1.75	166	4.56	2.39	274	0.88	7.13
SM	9429 VI	Assault	IAPS	182	3.09	1.72	182	4.2	2.26	279	0.55	6.83
SM	9520 VI	Kids	IAPS	185	3.08	1.79	184	4.54	2.25	286	0.87	6.12
SM	9530 VI	Boys	IAPS	169	3.4	1.84	169	3.85	2.01	275	0.45	6.66
SM	9926 VI	Flood	IAPS	179	3.53	2.06	179	4.58	2.29	278	1.15	7.41
SM	6000 UO	Prison	IAPS	67	4.22	1.46	67	3.78	2.04	68	-0.1	4.21

SM	6020 UO	ElectricChair	IAPS	182	3.37	1.9	182	3.93	2.23	280	1.16	5.11
SM	6190 UO	Aimedgun	IAPS	62	3.79	1.75	62	4.31	2.21	61	2.46	5.53
SM	6200 UO	Aimedgun	IAPS	68	3.31	1.75	67	5.01	2.35	68	1.87	5.63
SM	6210 UO	Aimedgun	IAPS	49	4.29	1.91	49	4.43	2.16	56	0.98	6.2
SM	6230 UO	Aimedgun	IAPS	188	3.13	1.93	187	5.03	2.69	285	2.87	6.04
SM	6260 UO	Aimedgun	IAPS	166	3.49	2.07	166	5.07	2.42	274	3.07	6.04
SM	6410 UO	Aimedgun	IAPS	62	4.69	1.56	62	4.1	1.92	61	2.17	4.83
SM	9010 UO	BarbedWire	IAPS	49	4.57	1.17	49	3.98	1.7	56	0.28	5.48
SM	9090 UO	Exhaust	IAPS	185	3.82	1.56	184	3.93	2.02	287	1.29	6.7
SM	9110 UO	Puddle	IAPS	181	3.67	1.53	181	3.61	1.98	279	2.02	6.11
SM	9290 UO	Garbage	IAPS	182	3.03	1.65	182	3.58	2.08	280	-0.1	4.91
SM	9291 UO	garbage	IAPS									
SM	9295 UO	garbage	IAPS									
SM	9300 UO	Dirty	IAPS	168	2.27	1.78	169	4.15	2.7	274	1.42	5.55
SM	9301 UO	Toilet	IAPS	179	2	1.49	179	4.4	2.87	280	3.15	5.98
SM	9320 UO	Vomit	IAPS	188	2.47	1.67	187	3.87	2.42	286	1.16	6.7
SM	9373 UO	Garbage	IAPS	185	3.41	1.66	184	3.93	2.22	287	1.18	4.87
SM	9390 UO	Dishes	IAPS	49	3.96	1.68	48	3.94	2	56	-2.2	4.82
SM	9560 UO	DuckInOil	IAPS	166	2.47	1.78	165	4.63	2.55	274	2.33	5.63
SM	9600 UO	Ship	IAPS	181	2.72	1.74	181	4.16	2.39	280	1.56	7.21
SM	9620 UO	Shipwreck	IAPS	48	3.58	1.8	49	4.51	2.42	56	1.28	4.71
SM	9621 UO	Ship	IAPS	185	3.43	1.86	184	4.83	2.25	286	0.58	6.97
SM	9901 UO	CarAccident	IAPS	182	2.75	1.83	182	4.27	2.33	277	0.62	5.72
SM	9911 UO	CarAccident	IAPS	185	2.68	1.8	183	4.69	2.56	286	2.23	6.34
SM	9912 UO	Firefighter	IAPS	166	3.06	1.67	166	4.28	2.25	273	1.21	6.61
SM	7000 NO	RollingPin	IAPS	187	4.96	1.1	187	3.33	1.98	286	-0	6.23
SM	7002 NO	Towel	IAPS	179	5.01	1.06	179	3.6	1.82	276	-0.2	5.68
SM	7004 NO	Spoon	IAPS	182	5.16	1.29	182	3.4	2.01	279	-0.4	7.19
SM	7006 NO	Bowl	IAPS	185	4.94	0.99	184	3.42	1.94	286	0.65	5.92
SM	7009 NO	Mug	IAPS	182	5.06	1.27	182	3.5	2.04	280	1.02	8.57
SM	7010 NO	Basket	IAPS	166	4.95	1.01	166	3.68	1.8	275	0.77	5.72
SM	7020 NO	Fan	IAPS	61	4.93	1.05	62	3.21	1.86	61	0.57	5.07

SM	7030 NO	Iron	IAPS	169	4.82	1.23	168	3.67	2.03	275	1.5	6.82
SM	7034 NO	Hammer	IAPS	179	4.98	1.02	179	3.77	1.87	278	0.3	5.34
SM	7038 NO	Shoes	IAPS	68	4.91	1.29	67	3.42	2.22	68	1.14	4.79
SM	7040 NO	DustPan	IAPS	187	4.86	1.17	187	3.24	2	287	0.79	5.76
SM	7041 NO	Baskets	IAPS	166	4.75	1.26	165	3.56	1.84	274	0.7	5.82
SM	7050 NO	hairdryer	IAPS									
SM	7052 NO	Clothespins	IAPS	188	5.24	1.35	187	3.4	2.12	286	1.49	5.57
SM	7053 NO	Candlestick	IAPS	184	5.14	1.13	185	3.65	1.94	286	0.63	5.92
SM	7054 NO	Glass	IAPS	169	4.34	1.47	169	3.57	2.01	274	0.88	6.98
SM	7055 NO	Lightbulb	IAPS	178	4.93	1.12	179	3.52	1.98	279	1.02	5.18
SM	7056 NO	Tool	IAPS	182	5.04	1.15	182	3.49	1.98	278	2.67	7.13
SM	7059 NO	Keyring	IAPS	166	4.87	1.09	166	3.73	1.78	274	0.93	5.38
SM	7080 NO	Fork	IAPS	49	5.08	1.22	49	3.33	2.05	56	1.19	4.23
SM	7090 NO	Book	IAPS	49	5.47	1.04	49	3.78	2.15	56	-0.1	4.35
SM	7110 NO	Hammer	IAPS	68	4.76	0.9	67	3.27	1.99	68	0.23	6.44
SM	7130 NO	Truck	IAPS	68	5	1.02	67	3.16	1.86	67	1.4	5.72
SM	7140 NO	Bus	IAPS	62	4.95	0.73	62	3.45	1.9	60	0.24	6.42
SM	50006 NO	truck	FVLAB	49	5.14	0.87	49	3.41	1.91	56	1.51	6.23
SM	2102 NP	NeuMan	IAPS	188	5.39	1.35	187	3.45	2.12	287	1.96	6.34
SM	2104 NP	NeuWoman	IAPS	49	5	0.94	49	3.67	1.81	56	-0.9	3.46
SM	2107 NP	Male	IAPS	117	5.21	0.99	117	3.99	1.91	217	0.93	6.92
SM	2190 NP	Man	IAPS	61	5.18	1.02	62	3.4	1.84	61	0.93	6.1
SM	2191 NP	Farmer	IAPS	182	6.08	1.53	182	4.04	2.21	280	-0.1	5.91
SM	2200 NP	NeutFace	IAPS	179	5.06	1.15	179	3.66	1.95	280	0.95	6.72
SM	2210 NP	NeutFace	IAPS	169	4.94	1.19	169	3.47	1.98	275	0.49	5.54
SM	2214 NP	NeutMan	IAPS	179	4.94	1.25	179	3.69	2.03	280	0.65	6.67
SM	2215 NP	NeutMan	IAPS	188	4.99	1.09	187	3.43	1.88	287	0.49	6.02
SM	2220 NP	MaleFace	IAPS	68	5.12	1.24	67	3.69	2.02	284	2.47	5.48
SM	2221 NP	Judge	IAPS	62	4.5	1.11	62	3.73	1.87	277	2.09	5.36
SM	2230 NP	SadFace	IAPS	49	5.02	1.16	49	3.29	2	56	0.05	4.24
SM	2235 NP	Butcher	IAPS	67	6.04	1.5	67	4.16	1.94	286	-0.3	9.21
SM	2305 NP	Woman	IAPS	188	5.66	1.54	187	4	2.2	287	1.22	5.87

SM	2312 NP	Mother	IAPS	185	4.52	1.95	183	4.13	1.99	285	1.3	6.6
SM	2358 NP	Family	IAPS	62	5.81	1.59	62	3.92	2.33	61	0.63	5.53
SM	2372 NP	Woman	IAPS	68	5.59	1.54	68	3.96	2.15	286	1.7	6.5
SM	2383 NP	Secretary	IAPS	49	5.47	1.19	49	3.65	2.08	275	1.23	6.65
SM	2393 NP	Factoryworker	IAPS	169	5.34	1.36	169	4.11	2.12	273	1.07	6.67
SM	2396 NP	Couple	IAPS	185	5.09	1.33	184	3.86	1.94	287	1.01	6.42
SM	2397 NP	Men	IAPS	49	5.08	1.29	49	3.53	1.95	56	-0.1	4.76
SM	2435 NP	Mom/Son	IAPS	185	5.85	1.54	184	4.26	2.08	285	0.36	5.04
SM	2441 NP	NeutralGirl	IAPS	68	5.35	1.23	67	3.54	2.07	285	1.54	6.8
SM	2485 NP	Man	IAPS	49	5.53	1.24	49	3.82	1.81	56	0.8	3.92
SM	2493 NP	NeutralMale	IAPS	49	5.18	0.95	49	3.57	1.91	275	1.21	5.54
SM	2495 NP	Man	IAPS	68	5.21	1.07	67	3.3	1.85	68	1.46	4.06
SM	2499 NP	NeutralMale	IAPS	49	5.2	1.38	49	3.37	1.92	56	2.06	5.46
SM	2500 NP	Man	IAPS	62	5.35	0.98	62	3.6	1.95	280	1.78	8.11
SM	2510 NP	ElderlyWoman	IAPS	49	6.69	1.49	49	3.73	2.23	56	0.96	3.82
SM	2512 NP	Man	IAPS	49	5.39	1.11	49	3.33	1.92	56	1.4	5.44
SM	2513 NP	Woman	IAPS	62	5.6	1.29	62	3.29	1.96	61	1.39	4.01
SM	2515 NP	Harvest	IAPS	68	6.46	1.66	66	4.65	2.3	287	0.74	6.83
SM	2570 NP	Man	IAPS	68	5.26	1.17	68	3.59	1.81	68	0.83	5.9
SM	2575 NP	Propeller	IAPS	181	5.3	1.28	181	3.43	1.99	279	0.89	5.4
SM	2579 NP	Bakers	IAPS	62	5.37	1.15	62	3.82	1.99	279	0.16	5.25
SM	2593 NP	Men	IAPS	49	5.88	1.2	49	3.88	2.06	275	-0.4	4.92
SM	2594 NP	City	IAPS	67	6.13	1.48	66	4.21	2.17	68	0.51	6.98
SM	2595 NP	Women	IAPS	49	5.49	1.39	49	3.78	1.95	275	0.77	7.16
SM	2597 NP	Market	IAPS	48	5.27	1.28	49	3.73	1.96	273	-0.1	6.85
SM	2598 NP	Family	IAPS	62	6.65	1.43	61	4.26	2.21	60	0.72	5.04
SM	2600 NP	Beer	IAPS	62	5.6	1.63	62	3.74	2.1	61	1.66	8.65
SM	2630 NP	Male	IAPS	49	5.06	1.09	48	3.6	1.9	273	-0.7	8.06
SM	2830 NP	Woman	IAPS	62	5.61	1.35	62	4.06	2.15	61	1.44	5.11
SM	2850 NP	Tourist	IAPS	49	5.57	1.19	49	3.84	2	274	-0.1	5.06
SM	7550 NP	Office	IAPS	62	5.21	0.83	62	3.68	1.9	278	0.63	7.28
SM	9070 NP	Boy	IAPS	184	5.04	1.86	184	3.82	1.94	287	2.56	6.68

SM	52006 NP	man	FVLAB	188	4.74	1.24	187	3.39	1.86	286	0.45	6.81
SM	52007 NP	man	FVLAB	179	5.14	1.18	178	3.7	1.97	280	0.78	5.37
SM	52008 NP	man face	FVLAB	62	4.98	1.31	62	3.42	2.04	61	0	4.89
SM	7350 FD	Pizza	IAPS	184	6.84	1.69	184	5.2	2.38	287	1.5	5.62
SM	7450 FD	Cheeseburger	IAPS	62	6.29	1.46	62	4.23	2.27	61	0.75	5.58
SM	7460 FD	FrenchFries	IAPS	166	6.52	1.69	166	5	2.31	273	1.82	6.79
SM	7480 FD	Pasta	IAPS	49	6.22	1.58	49	4.27	2.28	56	1.12	5.04
SM	7482 FD	Lamb	IAPS	61	6.56	1.66	61	4.62	2.4	61	1.31	4.11
SM	7485 FD	lamb and rice	IAPS	67	6.49	1.64	68	4.71	1.99	68	1.05	5.14
SM	22 FD	fried egg	OLAF	120	5.29	2.26	120	4.08	2.41	217	0.94	8.26
SM	37 FD	french fries	OLAF									
SM	75 FD	french fries	OLAF	117	7.17	1.59	117	5.71	2.44	218	1.13	6.33
SM	655 FD	pizza	OLAF									
SM	6054 FD	pizzaNONIAPS	OLAF	120	5.59	2.13	120	4.2	2.48	217	0.29	9.9
SM	42055 FD	hamburger	FVLAB									
SM	42056 FD	hot dogs	FVLAB									
SM	42057 FD	chicken wings	FVLAB									
SM	42058 FD	hamburger	FVLAB									
SM	42067 FD	burger	FVLAB	120	6.19	1.92	120	4.59	2.35	217	0.8	5.06
SM	7270 FD	IceCream	IAPS	61	6.26	1.56	62	4.47	2.13	60	0.66	6.23
SM	7330 FD	IceCream	IAPS	165	7.16	1.76	166	5.11	2.54	272	1.4	6.28
SM	7340 FD	IceCream	IAPS	188	6.99	1.66	187	4.84	2.55	287	1.04	6.79
SM	7410 FD	Candy	IAPS	165	6.49	1.67	165	4.85	2.23	273	1.45	7.79
SM	7430 FD	Candy	IAPS	179	6.53	1.57	178	4.86	2.3	275	0.95	7.6
SM	7470 FD	Pancakes	IAPS	185	6.89	1.66	184	5.26	2.15	283	0.96	5.38
SM	96 FD	candies	OLAF	120	5.72	1.74	120	4.08	2.25	218	0.1	7.37
SM	150 FD	pastries	OLAF	117	6.8	1.76	117	5.21	2.38	218	0.76	6.08
SM	40060 FD	pastries	FVLAB	120	6.83	1.78	120	4.79	2.52	218	1.28	5.71
SM	40061 FD	icecream	FVLAB	120	6.99	1.72	120	4.66	2.61	218	1.85	5.61
SM	40062 FD	pastries	FVLAB	120	6.85	1.81	120	4.84	2.57	218	1.2	5.9
SM	5250 LA	Nature	IAPS	68	5.87	1.61	67	4.28	2.21	68	0.47	4.45
SM	5626 LA	HangGlider	IAPS	68	7.26	1.61	66	6.03	2.56	67	0.92	5.95

SM	5628 LA	Mountains	IAPS	62	7.02	1.52	62	5.35	2.37	60	1.41	7.04
SM	5629 LA	Hiker	IAPS	49	6.65	1.52	49	4.82	2.56	56	1.1	4.22
SM	5631 LA	Mountains	IAPS	49	7.14	1.4	49	4.18	2.58	56	-0.2	5.07
SM	5660 LA	Mountains	IAPS	68	7.1	1.45	67	5.01	2.5	68	1.48	6.53
SM	5661 LA	Cave	IAPS	62	6.31	1.63	62	4.16	2.08	61	0.68	4.63
SM	5700 LA	Mountains	IAPS	49	6.8	1.62	49	4.49	2.42	56	0.61	4.34
SM	5711 LA	Field	IAPS	49	6.67	1.83	49	3.76	2.24	56	-0.3	5.94
SM	5764 LA	Field	IAPS	68	7.19	1.43	67	4.34	2.47	68	-1.1	5.37
SM	5780 LA	Nature	IAPS	59	7.17	1.34	61	4.31	2.68	61	0.1	4.56
SM	5781 LA	Lake	IAPS	62	7.1	1.46	62	3.94	2.44	61	-0.4	5.05
SM	2208 RO	Bride	IAPS	62	6.53	1.54	62	4.48	2.28	61	1.18	5.63
SM	4599 RO	Romance	IAPS	49	6.57	1.57	49	4.67	2.34	56	2.61	5.27
SM	4610 RO	Romance	IAPS	68	6.31	1.65	67	4.42	2.54	68	1.84	4.42
SM	4623 RO	Romance	IAPS	62	6.74	1.49	62	5.16	2.54	61	3.03	5.91
SM	4624 RO	Couple	IAPS	187	6.35	1.62	187	4.42	2.32	287	1.89	6.93
SM	4625 RO	Couple	IAPS	166	6.51	1.67	166	4.82	2.42	273	1.55	6.7
SM	4626 RO	Wedding	IAPS	68	7.4	1.58	66	5.24	2.47	68	2.59	5.92
SM	4628 RO	Wedding	IAPS	120	7.27	1.87	120	5.04	2.55	216	0.76	6.15
SM	4640 RO	Romance	IAPS	166	6.05	1.56	165	4.52	2.17	274	1.13	6.55
SM	4641 RO	Romance	IAPS	168	6.61	1.57	168	4.34	2.33	273	2.73	6.58
SM	4643 RO	EroticCouple	IAPS	185	6.32	1.72	184	5.19	2.25	287	2.31	6.56
SM	4645 RO	EroticCouple	IAPS	61	6.28	1.55	61	4.48	2.34	60	2.33	4.64
SM	4700 RO	Couple	IAPS	179	6.33	1.63	179	4.3	2.25	280	0.75	6.72
SM	44006 RO	people kissing	FVLAB	169	6.4	1.75	169	4.54	2.28	275	2.76	5.26
SM	44007 RO	romantic couple	FVLAB	185	6.37	1.72	185	4.87	2.34	287	0.9	5.36
SM	44008 RO	people kissing	FVLAB	188	6.7	1.7	186	4.9	2.43	284	3.3	6.97
SM	44009 RO	people kissing	FVLAB	182	6.4	1.78	182	4.47	2.32	280	2.26	6.48
SM	44010 RO	people kissing	FVLAB	185	6.47	1.7	183	5.07	2.37	286	3.1	5.89
SM	44011 RO	romantic couple	FVLAB	181	6.48	1.5	182	4.21	2.27	279	2.22	5.75
SM	44012 RO	wedding	FVLAB	169	7.09	1.72	169	4.95	2.56	271	1.52	5.95
SM	44015 RO	people kissing	FVLAB	185	6.19	1.78	184	4.8	2.29	287	1.04	5.21
SM	44021 RO	people kissing	FVLAB	165	6.29	1.7	165	4.8	2.23	275	1.67	5.74

SM	44022 RO	people kissing	FVLAB	62	6.11	1.36	62	4.18	2.22	61	4.1	5.91
SM	44023 RO	people kissing	FVLAB	62	5.98	1.41	62	4.32	2.1	60	3.08	4.37
SM	44024 RO	couple on beach	FVLAB	48	6.42	1.49	49	4.43	2.01	56	2.87	8.52
SM	4611 ER	EroticCouple	IAPS	188	6.85	1.73	187	5.06	2.56	285	3.7	5.55
SM	4647 ER	EroticCouple	IAPS	62	6.95	1.87	62	5.63	2.51	61	3.67	6.57
SM	4649 ER	EroticCouple	IAPS	49	6.98	1.52	48	5.6	2.59	56	3.08	4.2
SM	4650 ER	EroticCouple	IAPS	67	6.52	1.63	66	5.3	2.26	68	2.43	7.8
SM	4653 ER	EroticCouple	IAPS	62	6.87	1.43	62	4.9	2.27	61	1.76	4.33
SM	4658 ER	EroticCouple	IAPS	177	7.2	1.86	178	5.99	2.54	279	3.87	5.65
SM	4659 ER	EroticCouple	IAPS	169	7.07	1.72	168	5.59	2.75	272	2.5	5.79
SM	4660 ER	EroticCouple	IAPS	68	6.66	1.75	68	5.35	2.4	68	3.07	6.31
SM	4666 ER	EroticCouple	IAPS	67	6.97	1.78	66	6.09	2.31	68	3.78	6.23
SM	4669 ER	EroticCouple	IAPS	166	7.02	1.79	166	5.87	2.51	275	3.04	7.39
SM	4676 ER	EroticCouple	IAPS	67	6.82	1.75	65	5.66	2.47	68	4.42	7.16
SM	4677 ER	EroticCouple	IAPS	182	6.89	1.76	182	5.05	2.6	279	4	5.79
SM	4680 ER	EroticCouple	IAPS	179	7.04	1.82	179	5.96	2.51	278	3.79	7.23
SM	4687 ER	EroticCouple	IAPS	181	6.86	1.86	182	5.07	2.6	279	1.69	7.39
SM	4689 ER	EroticCouple	IAPS	49	6.65	1.56	49	5	2.45	56	2.89	5.73
SM	4690 ER	EroticCouple	IAPS	166	7.05	1.74	166	5.77	2.48	275	3.1	5.38
SM	4691 ER	EroticCouple	IAPS	169	7.22	1.71	169	5.73	2.75	275	2.87	5.66
SM	4693 ER	EroticCouple	IAPS	179	6.97	1.92	179	5.77	2.5	279	3.82	5.11
SM	4694 ER	EroticCouple	IAPS	61	6.98	1.58	61	5.25	2.51	61	4.4	5.59
SM	4695 ER	EroticCouple	IAPS	166	7.09	1.66	166	5.79	2.62	275	3.33	6.29
SM	4696 ER	EroticCouple	IAPS	188	6.7	1.86	187	5.27	2.55	287	1.26	6.08
SM	4698 ER	EroticCouple	IAPS	166	6.83	1.7	166	5.48	2.4	275	3.85	6.67
SM	4783 ER	EroticCouple	IAPS	120	7.05	1.65	120	5.33	2.64	217	3.52	8.03
SM	4800 ER	EroticCouple	IAPS	183	7.11	1.85	183	6.31	2.4	286	3.72	7.23
SM	4810 ER	EroticCouple	IAPS	68	7.1	1.91	67	6.33	2.52	68	5.43	5.98
SM	46017 ER	EroticCouple	FVLAB	120	7.07	1.9	120	5.49	2.65	219	3.99	5.9
SM	24000 CI	cigarette	FVLAB	68	4.06	1.65	67	3.52	1.93	68	1.52	3.87
SM	24001 CI	cigarette	FVLAB	182	5.4	1.88	182	4.22	2.25	280	2.32	6.89
SM	24002 CI	cigarette	FVLAB	185	5	1.95	184	4.4	2.13	286	2.68	6.06

SM	24003	CI	cigarette	FVLAB	186	5.16	2	187	4.05	2.24	287	1.45	8
SM	24004	CI	cigarette	FVLAB	166	5.18	1.86	166	4.61	2.11	275	2.07	7.41
SM	24005	CI	cigarette	FVLAB	168	5.01	1.92	169	3.98	2.17	275	1.49	6.85
SM	24006	CI	cigarette and ashtray	FVLAB	166	5.23	1.79	166	4.37	2.23	274	1.92	7.09
SM	24007	CI	cigarette	FVLAB	61	4.41	1.35	61	3.44	1.64	61	1.76	4.35
SM	24008	CI	smoking paraphernalia	FVLAB	166	5.37	1.82	166	4.26	2.09	275	0.02	5.56
SM	24009	CI	cigarette	FVLAB	187	5.22	1.97	187	4.39	2.23	286	1.37	7.03
SM	24010	CI	cigarette	FVLAB	166	5.3	1.89	166	4.41	2.29	273	1.89	6.22
SM	24011	CI	cigarette	FVLAB	62	4.82	1.6	62	3.61	2.03	61	1.27	3.71
SM	24012	CI	cigarette pack	FVLAB	187	5.19	2	188	4.01	2.28	284	1.55	8.45
SM	24013	CI	cigarette	FVLAB	62	4.63	1.46	62	3.82	1.94	61	1	4.84
SM	24014	CI	cigarette pack	FVLAB	179	5.61	1.87	179	4.54	2.24	279	3.29	6.39
SM Cbc404	Cbc404	CI	cigarette and ashtray	Carter01	188	5.23	1.96	187	4.05	2.28	286	0.73	7.88
SM Cbc417	Cbc417	CI	cigarette and ashtray	Carter01	179	5.31	1.85	179	4.22	2.21	278	2.37	4.54
SM Cqr545	Cqr545	CI	cigarette and ashtray	Carter02	188	5.26	1.93	187	4.12	2.1	287	1.66	6.31
SM NAPS001	NAPS001	CI	cigarette and ashtray	NAPS	182	5.27	1.79	182	4.15	2.23	277	0.42	7.05
SM NAPS006	NAPS006	CI	cigarette and ashtray	NAPS	165	5.43	1.77	165	4.33	2.16	272	0.24	4.8
SM Sisis020r	Sisis020r	CI	cigarette	ISIS	68	4.41	1.9	67	3.34	1.84	68	0.6	7.98
SM Sisis034r	Sisis034r	CI	cigarette	ISIS	49	4.49	1.72	49	3.39	2.05	56	2.24	4.18
SM Sisis088l	Sisis088l	CI	cigarette	ISIS	48	4.46	1.54	49	3.27	1.9	56	0.55	4.75
SM Sisis111r	Sisis111r	CI	cigarette	ISIS	62	4.69	1.48	62	3.94	2.16	61	1.26	5.32
SM 22004	22004	CI	person smoking	FVLAB	185	5.14	1.96	184	4.45	2.21	285	1.36	5.21
SM Cbc401	Cbc401	CI	man smoking	Carter01	169	5.21	1.86	169	4.16	2.09	274	1.7	6.51
SM Cbc402	Cbc402	CI	two people hugging	Carter01	68	5.54	1.94	68	4.1	1.95	68	1.01	5.48
SM Cbc411	Cbc411	CI	man smoking	Carter01	49	4.39	1.75	49	3.18	1.92	56	2.61	4.56

SM Cbc412	CI	two people talking	Carter01	62	4.98	1.57	62	4.03	1.99	61	1.06	5.12
SM Cqr433	CI	man smoking	Carter02	48	4.98	1.88	49	3.67	2.01	56	-0.1	4.64
SM Cqr443	CI	person smoking	Carter02	49	4.14	1.47	49	3.47	1.98	273	2.22	5.42
SM Sisis001r	CI	woman smoking	ISIS	68	3.97	1.77	67	3.78	1.91	287	2.37	4.94
SM Sisis003r	CI	woman smoking	ISIS	182	5.53	1.76	182	4.34	2.25	277	2.05	7.2
SM Sisis004l	CI	man smoking	ISIS	67	4.3	1.78	67	3.76	2.02	286	2.39	4.62
SM Sisis007l	CI	man with cigarette	ISIS	61	4.74	1.58	62	3.92	2.03	279	2.29	5.42
SM Sisis008l	CI	man with cigarette	ISIS	68	4.31	1.73	66	3.71	1.92	68	2.24	5.16
SM Sisis010l	CI	man smoking	ISIS	68	4.31	1.85	67	3.81	1.98	287	1.78	6.76
SM Sisis016r	CI	man smoking	ISIS	62	4.61	1.53	61	3.9	2.03	60	1.71	5.55
SM Sisis017l	CI	man smoking	ISIS	61	4.62	1.58	60	3.57	2.24	280	1.54	6.7
SM Sisis019r	CI	man smoking	ISIS	179	5.16	1.67	179	4.25	2.11	280	1.36	7.93
SM Sisis022l	CI	man smoking	ISIS	49	4.47	1.56	48	3.21	1.98	275	1.97	5.95
SM Sisis029l	CI	men smoking	ISIS	188	5.05	1.91	187	4.22	2.21	285	1.46	6.73
SM Sisis030r	CI	man smoking	ISIS	166	5.34	1.74	166	4.5	2.21	273	1.36	5.12
SM Sisis031l	CI	man smoking	ISIS	62	4.73	1.58	62	3.63	1.96	279	1.2	7.52
SM Sisis033r	CI	man smoking	ISIS	68	4.31	1.75	67	3.49	1.82	286	0.88	5.56
SM Sisis038l	CI	man smoking	ISIS	188	5.1	1.89	187	4.21	2.11	287	2.1	6.26
SM Sisis047r	CI	man smoking	ISIS	166	5.21	1.81	165	4.41	2.18	275	1.49	5.27
SM Sisis055r	CI	woman smoking	ISIS	181	5.44	1.76	181	4.1	2.16	278	1.67	5.82
SM Sisis058l	CI	woman smoking	ISIS	179	5.08	1.84	179	4.21	2.2	280	1.48	5.47
SM Sisis062r	CI	man smoking	ISIS	48	4.56	1.72	48	3.33	1.89	275	1.76	7.54
SM Sisis063r	CI	person smoking	ISIS	62	4.89	1.42	62	3.95	1.97	61	2.11	5.51
SM Sisis068l	CI	woman smoking	ISIS	168	5.39	1.79	169	4.11	2.05	273	2.44	6.34
SM Sisis070r	CI	woman smoking	ISIS	179	5.39	1.81	179	4.56	2.24	278	1.45	5.41
SM Sisis073r	CI	women smoking	ISIS	61	4.75	1.69	62	3.79	1.8	277	1.11	6.83
SM Sisis081r	CI	woman smoking	ISIS	188	5.27	1.95	187	4.16	2.06	287	1.92	5.94
SM Sisis089l	CI	woman smoking	ISIS	68	3.78	1.87	66	3.39	1.8	286	1.26	5.53
SM Sisis091r	CI	man smoking	ISIS	68	4.31	1.79	68	3.68	1.98	68	2.07	4.38

SM Sisis092r	CI	person smoking	ISIS	47	4.6	1.72	49	3.31	1.78	56	2.55	3.45
SM Sisis093r	CI	man smoking	ISIS	68	4.21	1.59	67	3.34	1.86	287	1.58	7.45
SM Sisis097r	CI	person smoking	ISIS	66	4.33	1.81	65	3.48	2.02	68	0.73	5.46
SM Sisis099r	CI	man smoking	ISIS	61	4.64	1.4	62	3.69	2.13	61	1.92	4.51
SM Sisis100r	CI	man smoking	ISIS	62	4.66	1.61	62	3.85	1.86	279	1.83	7.82
SM Sisis101r	CI	woman smoking	ISIS	179	5.27	1.74	179	4.33	2.29	279	2.53	6.5
SM Sisis103r	CI	person smoking	ISIS	61	4.72	1.48	62	3.81	2.11	61	1.75	5.15
SM Sisis104r	CI	woman smoking	ISIS	169	5.21	1.96	169	4.21	2.24	274	1.08	5.4
SM Sisis106r	CI	man smoking	ISIS	68	4.18	1.74	67	3.43	1.84	286	0.44	6.37
SM Sisis107r	CI	man smoking	ISIS	67	4.27	1.74	67	3.7	1.95	287	1.61	5.43
SM Sisis108r	CI	man smoking	ISIS	165	5.27	1.68	166	4.23	2.15	275	1.64	5.38
SM Sisis115r	CI	man smoking	ISIS	49	4.37	1.68	49	3.49	1.92	56	2.02	5.42
SM Sisis116r	CI	man smoking	ISIS	49	4.33	1.59	49	3.27	1.9	56	2.48	4.27
SM Sisis118r	CI	man smoking	ISIS	48	4.52	1.62	48	3.65	1.97	56	2	4.88
SM Sisis120r	CI	people smoking	ISIS	49	4.39	1.85	49	3.14	1.8	56	1.47	4.84