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The Collection
This document is part of a collection that serves two purposes. First, it is a digital archive for a sampling of unpublished documents, presentations, questionnaires and limited publications resulting from over forty years of research. Second, it is a public archive for data on college student drinking patterns on the national and international level collected for over 20 years. Research topics by Dr. Engs have included the exploration of hypotheses concerning the determinants of behaviors such as student drinking patterns; models that have examine the etiology of cycles of prohibition and temperance movements, origins of western European drinking cultures (attitudes and behaviors concerning alcohol) from antiquity, eugenics, Progressive Era, and other social reform movements with moral overtones-Clean Living Movements; biographies of health and social reformers including Upton Sinclair; and oral histories of elderly monks.

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Indiana University Archives
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REFORMATTING VARIABLES AND CALCULATIONS FOR
ONTARIO LIFESTYLE, ALCOHOL, AND DRUG QUESTIONNAIRE

Ruth Engs, Indiana University, Bloomington, IN
Louis Glickman, and Cindy Smith, Addiction Research Foundation, Ontario, Canada, 1988*

ABSTRACT

The Ontario Lifestyle, Alcohol, and Drug Questionnaire uses items from the SAQ including drinking behaviors and problems related to alcohol and demographic variables. Several data bases are associated with this questionnaire. These include data collected by the Ontario researchers (ALLCAN.DAT), data collected by the American researchers (MIDWEST88.DAT) and the two data based combined for comparison between the two countries (XUSACAN.DAT). Data for this study were collected in the United States and in Canada during 1977-1988. Students from Midwestern states in the United States surrounding Ontario were selected for comparative purposes to Ontario. The variable list from the Canadian database is included along with rewriting of the Canadian variables, and a sample calculation for comparing the two countries.

*Data for the study were collected in the USA by Ruth C. Engs, Indiana University and David J. Hanson, SUNY Potsdam, NY and in Canada by Louis Glickman and Cindy Smith, Addiction Research Foundation, Toronto.
1. VARIABLE LIST FOR THE CANADIAN VARIABLES FROM SPSS PROGRAM.
   Please note that the questionnaire was a draft version and the spaces designated on
   the questionnaire do not match up with the variable spaces in the following SPSS
   program.

1. Title on questionnaires-Data Definition June/88
2. File Handle QUEENS
3. Data List File=QUEENS Records=1 Notable
4. /1 ID 1-3 Gender 4 Age 5-6 Racial 7 V4 8 V5 9 V6 10-11 V7 12
   V8 13
7. V25 31 V26 32 V27 33 V28 34 V29 35 V30 36 V31 37 V32 38
8. V33 39 V34 40 V35 41 V36 42 V37 43 V38 44 V39 45 V40 46
9. V41 47 V42 48 V43 49 V44 50 V45 51 V46 52 V47 53 V48 54
11. V55 64 V56 65 V57 66 V58 67 V59 68 V60 69 V61 70 V62
   71 V63 72 V64 73 V65 74 V66 75 V67 76 V68 77 V69 78 V70
   79 V71 80
12. Var Labels Racial "Your Racial Origin"
13. V4 "Citizenship Status"
14. V5 "Year of University"
15. V6 "Last Year's Grade Average"
16. V7 "Your Religion"
17. V8 "Religion you were brought up in"
18. V9 "How Important is Religion to You"
19. V10 "Freq - Religious Service Attendance"
20. V11 "Current Marital Status"
21. V12 "Place of Residence at University"
22. V13 "Undergrad Major Field of Study"
23. V14 "Gone on a Shopping Spree"
24. V15 "Engaged in Sexual Activity"
25. V16 "Gambled"
26. V17 "Began a New Love Relationship"
27. V18 "Dieted to Lose Weight"
28. V19 "Overeaten"
29. V20 "Laxatives or Vomiting"
30. V21 "Used Alcohol to Reduce Stress"
31. V22 "# of Hours/DAY-Indiv Exercise"
32. V23 "# of Hours/DAY-Team Exercise"
33. V24 "# of Hours/DAY-Studying"
34. V25 "# of Hours/DAY-Watching TV"
35. V26 "# of Hours/DAY-Video Games"
36. V27 "# of Hours/DAY-Computer"
37. V28 "# of Hours/DAY-Drinking ALC"
38. Comment V29-V45 Problems as Result of Drinking from SAQ
39. V29 "Had a Hangover"
40. V30 "Vomited from Drinking"
41. V31 "Driven After Drinking"
42. V32 "Driven with Too Much to Drink"
43. V33 "Drinking While Driving"
Engs - Reformating variables and calculations for comparison between Canada and the United States for the OnLifAlcAndDrgQ, 1994

| V34 | "GONE TO CLASS AFTER DRINKING" |
| V35 | "CUT A CLASS AFTER DRINKING" |
| V36 | "MISSED A CLASS-HANGOVER" |
| V37 | "ARRESTED FOR IMPAIRED" |
| V38 | "CRITICIZED FOR DRINKING" |
| V39 | "TROUBLE WITH LAW FOR DRINKING" |
| V40 | "LOST JOB FOR DRINKING" |
| V41 | "LOWER GRADE FOR DRINKING" |
| V42 | "SCHOOL ADMIN TROUBLE-DRINKING" |
| V43 | "FIGHT AFTER DRINKING" |
| V44 | "FEEL HAVE PROBLEM WITH DRINKING" |
| V45 | "DAMAGED PROPERTY AFTER DRINKING" |
| V46 | "ACCIDENT AFTER DRINKING" |
| V47 | "MEMORY LOSS AFTER DRINKING" |
| V48 | "DONE SOMETHING YOU REGRETED" |
| V49 | "FREQUENCY - BEER" |
| V50 | "AMOUNT PER OCCASION - BEER" |
| V51 | "FREQUENCY - WINE" |
| V52 | "AMOUNT PER OCCASION - WINE" |
| V53 | "FREQUENCY - LIQUOR" |
| V54 | "AMOUNT PER OCCASION - LIQUOR" |
| V55 | "LAST 12 MONTHS - ALCOHOL" |
| V56 | "LAST 12 MONTHS - TOBACCO" |
| V57 | "LAST 12 MONTHS - CANNABIS" |
| V58 | "LAST 12 MOS.- BARBIT-NO SCRIPT" |
| V59 | "LAST 12 MOS.- BARBIT-WITH SCRIPT" |
| V60 | "LAST 12 MOS. - HEROIN" |
| V61 | "LAST 12 MOS. - METHAMPHETAMINES" |
| V62 | "LAST 12 MOS. - COCAINO::0:R6L:F::A::E:E" |
| V63 | "LAST 12 MOS. - CRACK" |
| V64 | "LAST 12 MOS. - STIMUL-NO SCRIPT" |
| V65 | "LAST 12 MOS. - LOOK-ALIKE DRUGS" |
| V66 | "LAST 12 MOS. - STIMUL-WITH SCRIPT" |
| V67 | "LAST 12 MOS. - TRANQS-NO SCRIPT" |
| V68 | "LAST 12 MOS. - TRANQS-WITH SCRIPT" |
| V69 | "LAST 12 MOS. - LSD" |
| V70 | "LAST 12 MOS. - HALLUCINOGENS" |
| V71 | "LAST 12 MOS. - ANABOLIC STEROIDS" |

**Value Labels**

| GENDER | "MALE" 1 "FEMALE" 2 |
| RACIAL | "BLACK" 1 "EAST ASIAN" 2 "SOUTH ASIAN" 3 "S-E ASIAN" 4 "WEST ASIAN" 5 "WHITE" 6 "OTHER" 7 |
| V4 | "BORN IN CANADA" 1 "NATURALIZED CDN" 2 "LANDED IMMIGRANT" 3 "STUDENT VISA" 4 "OTHER" 5 |
| V7 | "ROMAN CATHOLIC" 1 "PROTESTANT-DRINK" 2 "PROTESTANT-NO DRINK" 3 "JEWISH" 4 "EASTERN ORTHODOX" 5 "NONE" 6 "ORTHodox" 7 "OTHER" 8 |
| V8 | "ROMAN CATHOLIC" 1 "PROTESTANT-DRINK" 2 "PROTESTANT-NO DRINK" 3 "JEWISH" 4 "EASTERN ORTHODOX" 5 "NONE" 6 "OTHER" 7 |
| V9 | "VERY IMPORTANT" 1 "MODERATELY IMPORTANT" 2 "IMPORTANT" 3 "MILDLY IMPORTANT" 4 "NOT IMPORTANT" 5
Engs - Reformatting variables and calculations for comparison between Canada and the United States for the OnLifAlcAndDrgQ, 1994

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<td>Single</td>
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<td>V12</td>
<td>University Residence</td>
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<td>Arts</td>
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<td>University Residence</td>
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<th>V29 to V48</th>
<th>Labels</th>
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<tr>
<td>V55</td>
<td>Didn't Drink</td>
</tr>
<tr>
<td>V56</td>
<td>Didn't Use</td>
</tr>
</tbody>
</table>

Comment the V49 to V54 are frequency and quantity of drinking beer, wine, spirits.
The data bases ALLCAN.DAT and XUSACAN are used for the following calculations:

2. **CALCULATIONS FOR REWRITING VARIABLES FROM THE CANADIAN QUESTIONNAIRE TO MATCH ITEMS IN THE AMERICAN SAQ.** Note: The “lifestyle” and “drug use” items found on the *Ontario lifestyle, alcohol, and drug questionnaire* were not used in the USA. The following SPSS is for a UNIX-mainframe. Please note that the questionnaire on this site is a draft version and the spaces designated on the questionnaire do not match up with the variable spaces in the following SPSS program.

```spss
TITLE 'WRITING CANADIAN DATA INTO USA DATA FORM'
DATA LIST FILE='ALLCAN.DAT' RECORDS=1
/SEX 4 AGE 5-6 RACE 7 CLASS 9 GRADE 10-11 RELIG 12 ROS 14
MAJOR 18-19 HANGOR 35 VOMIT 36 DRIVCA 37 DRCARK 38 DWDRIV 39
CLASSDR 40 CUTFCLASSD 41 MISHANG 42 DWI 43 CRITIC 44 LAW 45
JOBLOST 46 LOWGRADE 47 SCHADMIN 48 FIGHT 49 TINKPROB 50
DAMAGE 51 BEFREQ 55 BEAMT 56-57 WINE 58 WINAMT 59-60 LIQ 61 LIQAMT 62-63
STRING MAJORX (A1)
RECODE MAJOR(0="J") (1="B") (2="P") (3="M") (4="B") (5="E") (6="L")
(7="K") (8="A") (9="O") (10="O") INTO MAJORX
IF (GRADE GE 90) GPA=1
IF (GRADE GE 85 AND GRADE LT 90) GPA=2
IF (GRADE GE 80 AND GRADE LT 85) GPA=3
IF (GRADE GE 75 AND GRADE LT 80) GPA=4
IF (GRADE GE 70 AND GRADE LT 75) GPA=5
IF (GRADE LT 70) GPA=6
RECODE RACE (2,3=4) (1=2) (6=1) INTO RACEX
RECODE RELIG (7,6=5) (2=3) (4=2) (3=4) (1=1) INTO RELIGX
RECODE BEFREQ (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE WINE (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE LIQ (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE BEAMT (1,2=4) (3,4=3) (5,6=3) (7 thru hi =1) (else=sysmis)
RECODE WINAMT (1,2=4) (3,4=3) (5,6=3) (7 thru hi =1) (else=sysmis)
```

**Engs** - Reformattting variables and calculations for comparison between Canada and the United States for the *OnLifAlcAndDrgQ*, 1994
3. VARIABLE LIST AND CALCULATION FOR DOING A T-TEST BETWEEN CANADA AND THE UNITED STATES

TITLE T-TEST FOR CANADIAN AND USA STUDY 1988
DATA LIST file = XUSACAN RECORDS = 2
   /REGION SCHOOL COMM SIZE TYPE DPT SEX AGE MAJOR CLASS GPA
   RACE RELIG ROS BEFREQ BEAMT WINE WINAMT LIQ LIQAMT
   HANGOR VOMIT DRIVCAR DRCARK DRINKDR CLASSDR CUTLASS
   MISCLASS DWI CRITIC LAW JOBLOST LOWBGRAD SCHADMIN FIGHT
   TINKPROB DAMAGE COUNTRY (F1.0,F3.0,4F1.0,F1.0,F2.0,
   A1,5F1.0,23F1.0,39X/75X,F1.0)
   IF (AGE LE 20)AGE1=1
   IF (AGE GE 21)AGE1=2
   RECODE COUNTRY(MISSING=1)
   RECODE MAJOR ("A"=1) ("B"=2) ("C"=1) ("D"=1) ("E"=10) ("F"=1)
                      ("G"=7) ("H"=10) ("I"=1) ("J"=10) ("K"=11) ("L"=7)
                      ("M"=11) ("N"=1) ("O"=15) ("P"=16) ("Q"=1) ("R"=15)
                      ("S"=11) ("T"=11) ("U"=16) INTO MAJORA
VALUE LABELS
   HANGOR TO DAMAGE 5 'AT LEAST 1,1LST YR'
                      4 'AT LEAST 1,2M,NOT YR'
                      3 'NOT DUR 2M,1 LST YR'
                      2 'ONCE IN MY LIFE'
                      1 'NOT HAPPENED'/
   REGION 1 'NE' 2 'NC' 3 'S' 4 'W'/
   COMM 1 'LESS 10,000' 2 'BET 100-500 THOUS' 3 'GT 500,000'/
   SIZE 1 'LT 10,000' 2 'CT 10,000'/
   TYPE 1 'PUBLIC' 2 'PRIVATE'/
   SCHOOL 9 'CATHOLIC' 8 'PROT' 7 'BLACK' 6 'OTHER'/
   SEX 1 'MALE' 2 'FEMALE'/
   CLASS 1 'FRESH' 2 'SOPH' 3 'JUNIOR' 4 'SENIOR' 5 'OTHER'/
   GPA 1 '4' 2 '3.5' 3 '3.0' 4 '2.5' 5 '2.0' 6 'LT 2.0'/
   RACE 1 'WHITE' 2 'BLACK' 3 'HISPANIC' 4 'ORIENTAL' 5 'IND' 6 'OTHER'/
   RELIG 1 'R.C.' 2 'JEW' 3 'PROT, ALLOW DRNK' 4 'PROT, NOT DRNK'
                      6 'OTHER'/
   BEAMT WINAMT LIQAMT 1 '7+ GLASSES' 2 '5-6 GLASSES' 3 '3-4 GLASSES'
                      4 '1-2 GLASSES'/
   MAJORA 1 'SOCIAL SCI' 2 'ARTS/HUM' 3 'PSYCH' 4 'PRE-SOCIAL'
          5 'NURSING' 6 'PRE-LAW' 7 'EDUCATION' 8 'PRE-MED' 9 'FORENSICS'
          10 'HEALTH SCI' 11 'PHYSICAL SCI' 12 'HPER' 13 'ENGINEERING'
          14 'RELIGION' 15 'OTHER/UNDEC' 16 'BUSINESS' 17 'TELECOM'
Engs - Reformating variables and calculations for comparison between Canada and the United States for the OnLiAlcAndDrgQ, 1994

18 'GENERAL STUDIES' 19 'COMPUTER SCI' 20 'BIOLOGY' 21 'ECON' /
BEFREQ WINE LIQ
5 'EVERY DAT' 4 'AT LE 1ST WK NOT DAT'
3 'ONCE MO,LESS WK' 2 'ONCE A YR,LESS MO' 1 'ONCE A YR OR LESS'
0 'NOT AT ALL'/
ROS 1 'VERY IMPT' 2 'NOT IMPT'
RECODE SCHOOL (0,1,2,3,4,5=6)
RECODE HANGOR TO DAMAGE (1=5) (2=4) (4=2) (5=1) (3=3) (ELSE=SYSMIS)
MISSING VALUES REGION TO AGE CLASS TO ROS (999)
MISSING VALUES MAJOR('9999')
COMMENT KEEP MIS DAT 82 _ 71 DATA NOT 75. BLANK IS NO DRNK IF (SEX GT 2 OR SEX LT 0) SEX=0

COMMENT CALCULATIONS TO GET MEAN PROBLEM SCORE
COMPUTE PROB=0
IF (HANGOR EQ 3 OR HANGOR EQ 4 OR HANGOR EQ 5) PROB=PROB+1
IF (VOMIT EQ 3 OR VOMIT EQ 4 OR VOMIT EQ 5) PROB=PROB +1
IF (DRIVCAR EQ 3 OR DRIVCAR EQ 4 OR DRIVCAR EQ 5) PROB=PROB + 1
IF (DRINKDR EQ 3 OR DRINKDR EQ 4 OR DRINKDR EQ 5) PROB=PROB + 1
IF (CLASSDR EQ 3 OR CLASSDR EQ 4 OR CLASSDR EQ 5) PROB=PROB + 1
IF (CUTLASS EQ 3 OR CUTLASS EQ 4 OR CUTLASS EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (MSCLASS EQ 3 OR MSCLASS EQ 4 OR MSCLASS EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
COMMENT I HAVE ALSO TRIED TO LEAVE THE ABOVE COMMAND IN AND TAKE OUT SYSMIS ON THE NEXT FEW LINES.
RECODE BEAMT,WINAMT,LIQAMT (1=8) (2=6) (3=4) (4=2) (ELSE=SYSMIS)
RECODE BEFREQ, WINE, LIQ (5=7.0) (4=3.5) (3=.5) (2=.12) (1=.02) (ELSE=SYSMIS)
COMPUTE MEANB = BEFREQ*BEAMT
COMPUTE MEANW = WINE * WINAMT
COMPUTE MEANL = LIQ * LIQAMT
COMPUTE MEANT = SUM.1(MEANB, MEANW, MEANL)

COMMENT CALCULATIONS TO GET ABS ALC FROM MOST FRQ DRUNK BEV IN TERMS OF AMOUNT DRUNK WEEKLY FROM GLICKMAN
T-TEST GROUPS=COUNTRY/VARIABLES=MEANB MEANW MEANL PROB MEANT
STATISTICS ALL TEMPORARY
SELECT IF (SEX EQ 1)
T-TEST GROUPS = COUNTRY/VARIABLES = MEANB MEANW MEANL PROB MEANT
STATISTICS ALL TEMPORARY
SELECT IF (SEX EQ 2)
T-TEST GROUPS = COUNTRY/VARIABLES = MEANB MEANW MEANL PROB MEANT
STATISTICS ALL
### 4. Example of a Chi-Square (CROSSTABS) Output for Drinks Per Week Between the USA and Canadian Students Using the Combined (XUSACAN.DAT) Data Base

77 0 COMPUTE MEANT = SUM.1(MEANB, MEANW, MEANL)  
78 0 COMMENT CALCULATIONS TO GET ABS ALC FROM MOST FRQ DRUNK BEV  
79 0 IN TERMS OF AMOUNT DRUNK WEEKLY FROM GLICKMAN  
80 0 IF (MEANT LT .5) ALLMEAN=1  
81 0 IF (MEANT GE .5 AND MEANT LE 7) ALLMEAN=2  
82 0 IF (MEANT GT 7 AND MEANT LE 14) ALLMEAN=3  
83 0 IF (MEANT GT 14 AND MEANT LE 28) ALLMEAN=4  
84 0 IF (MEANT GT 28 ) ALLMEAN=5  
85 0 VALUE LABELS ALLMEAN 1 "ABST"  
86 0 2 "1-7 DNKS PER WEEK"  
87 0 3 "8-14 DRINK"  
88 0 4 "15-28 DRNKS"  
89 0 5 "GT 28 DRNKS"  
90 0 CROSSTABS VARIABLES= COUNTRY(1,2) ALLMEAN(1,5), RELIG(1,5), ROS(1,2) SEX(1,2) AGE(18,22), MAJORA(1,16) RACE(1,2) GPA(1,6) CLASS(1,4) /  
91 0 TABLES= COUNT BY ALLMEAN, RELIG, ROS, SEX, AGE, MAJORA, RACE, GPA, CLASS/  
92 0 OPTIONS 1 18  
93 0 STATISTICS ALL  

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**Cindy***

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<th>8-14 DRI</th>
<th>15-28 DRNKS</th>
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*Engs* - Reformating variables and calculations for comparison between Canada and the United States for the *OnLifAlcAndDrgQ*, 1994