

WORK SHEETS

USING DATA TO IMPROVE PROGRAMS & ENHANCE STRATEGIC PLANNING

6/24/2014

BUTTONWOODS COMMUNITY CENTER

JOHN MATTSON CONSULTING



AGENDA

1. WHAT IS DATA?
2. DATA, INFORMATION AND KNOWLEDGE
3. SOURCES OF DATA
4. PRESENTING AND INTERPRETING DATA
 - BREAK
5. USING DATA FOR PLANNING:
ELEMENTS OF A NEEDS ASSESSMENT
6. THEORY OF CHANGE AND LOGIC MODEL
CONSTRUCTION
7. STRATEGIC AND ACTION PLANNING
8. QUESTIONS AND DISCUSSION

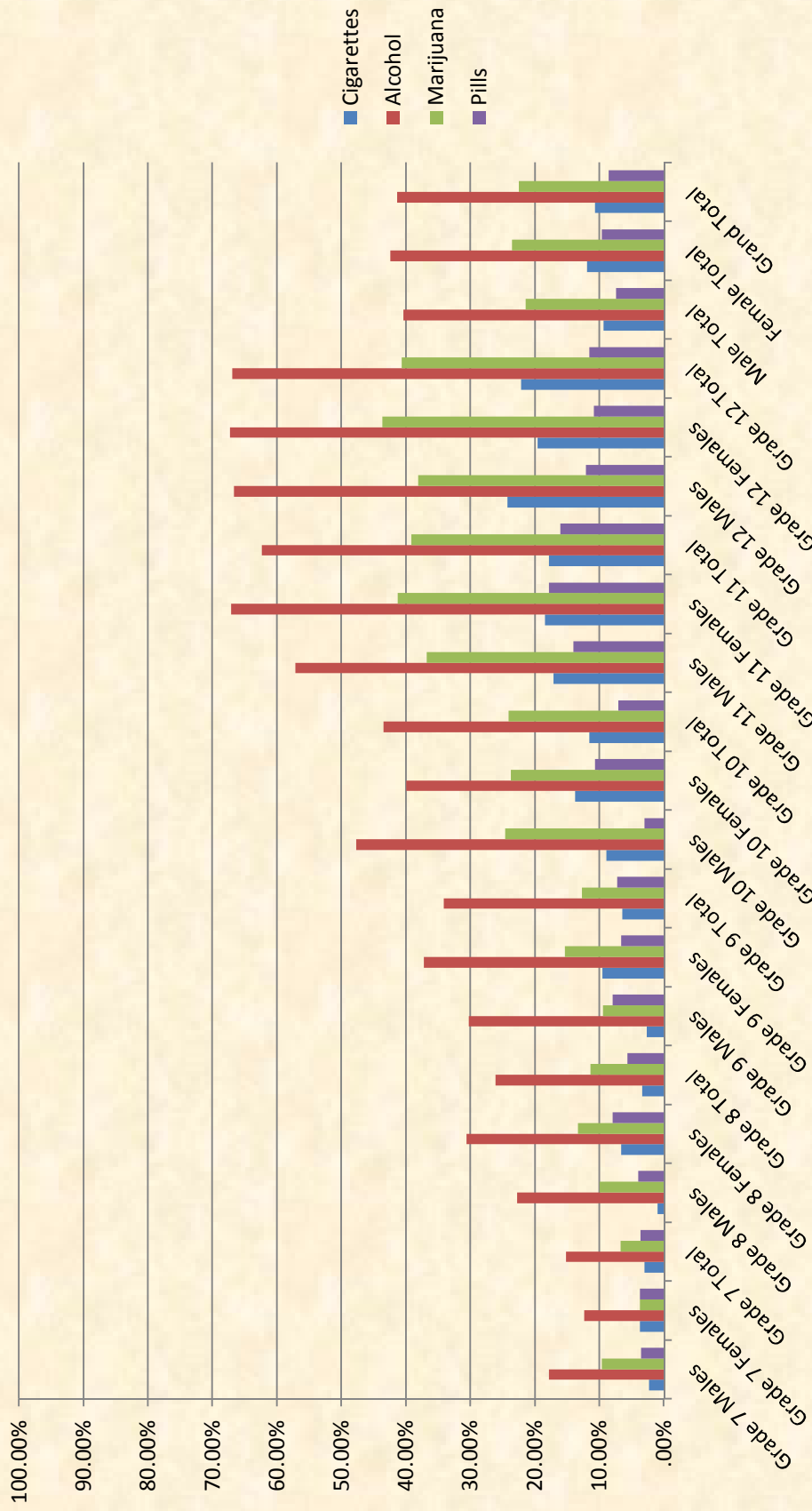
Survey Demographics

Table 1.0 – Respondents by Gender and Grade

Grade	Gender		Total
	Male	Female	
Grade 7	85	81	166
Grade 8	102	75	177
Grade 9	76	94	170
Grade 10	67	80	147
Grade 11	70	76	146
Grade 12	67	56	123
Total	467	462	929

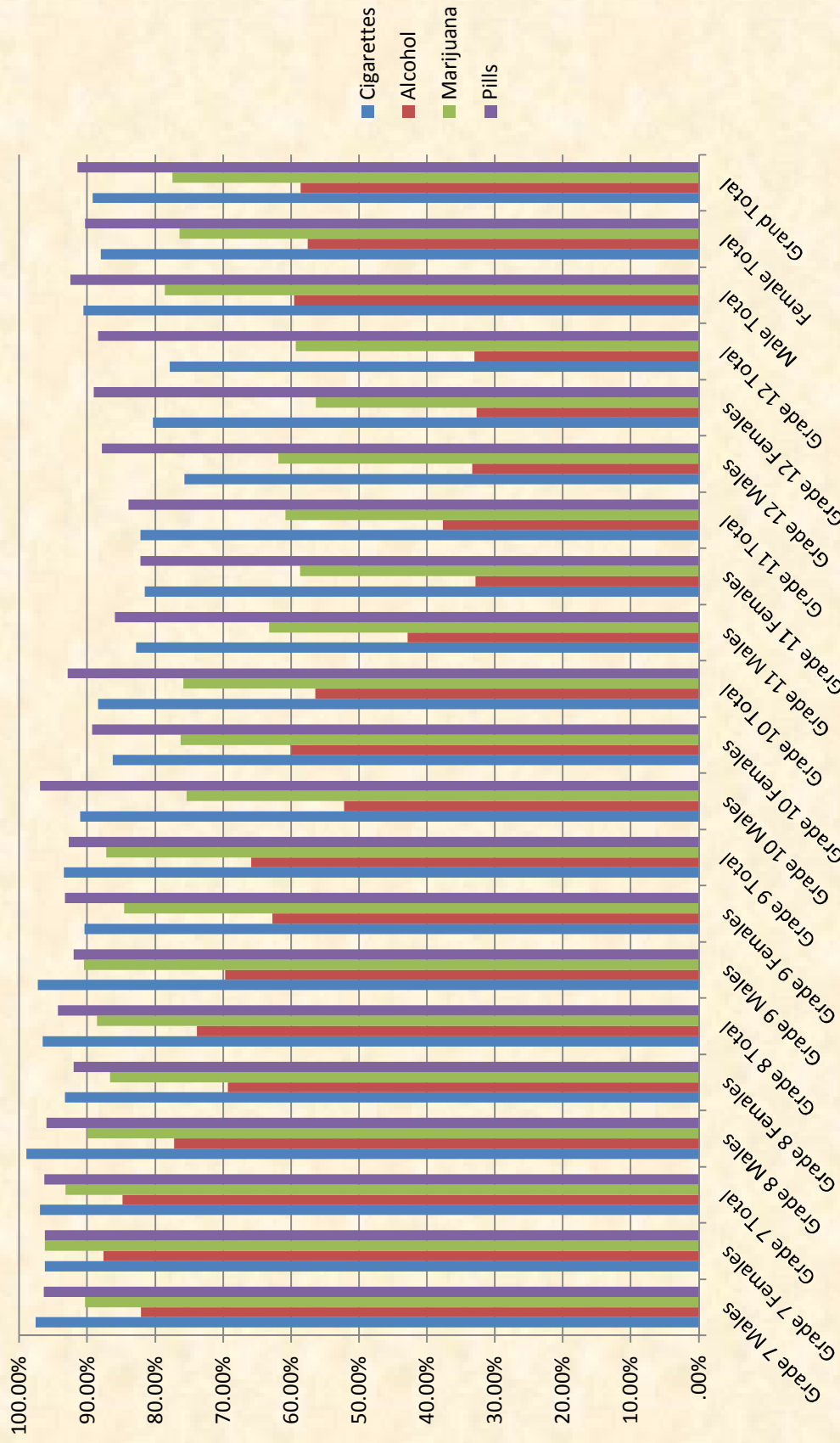
Why is this the first table presented? What does this tell you?
What else would we need to know to make this more useful data???

Stratified Column Bar Graph



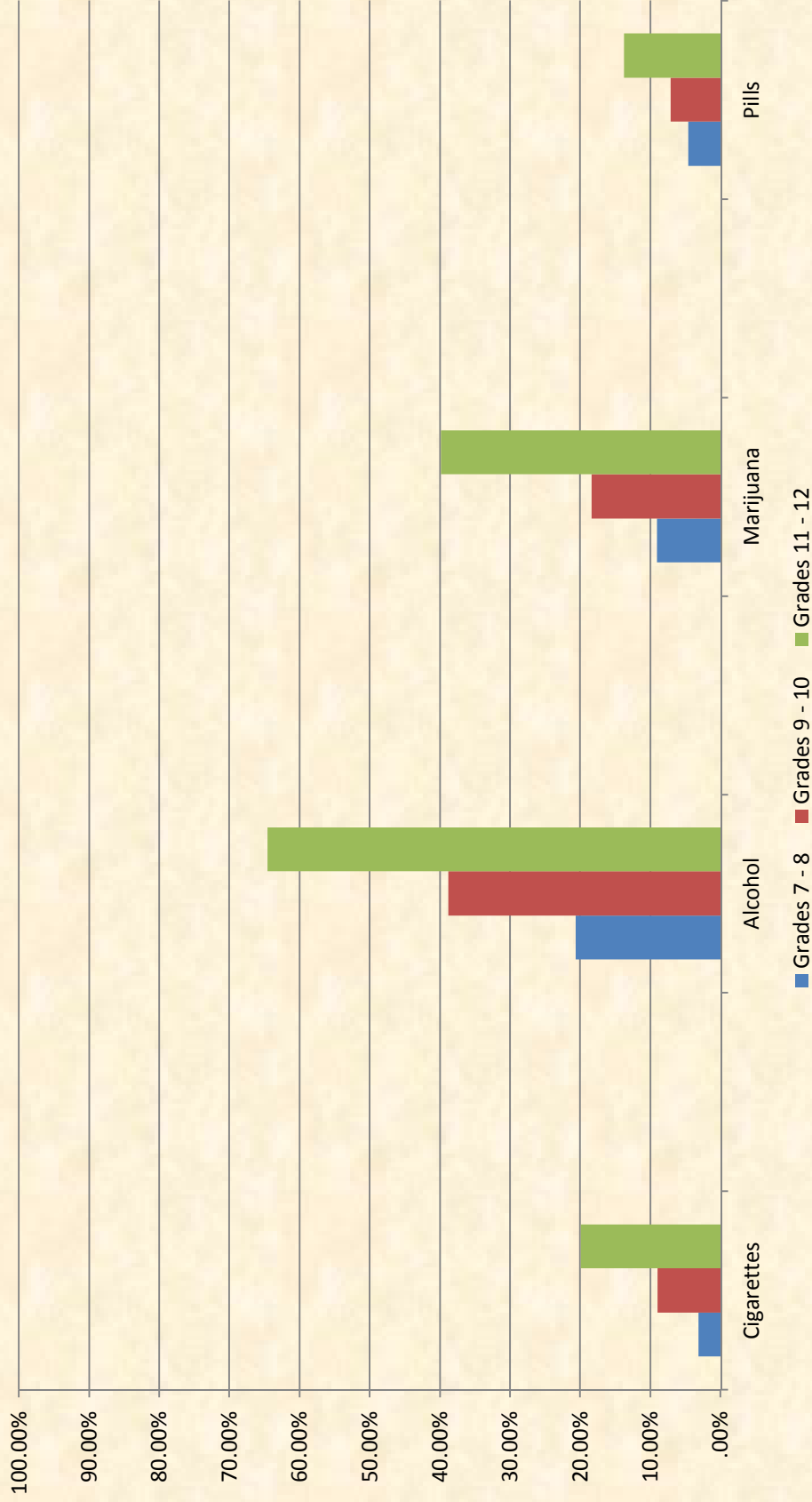
Without knowing exact numbers, can you tell what is happening here?
 Identify three possible issues based solely on the data presented...

Inverse Data Presentation: Last 30-day Non-Users



What does this chart show? How does it tell a different story than the previous table?

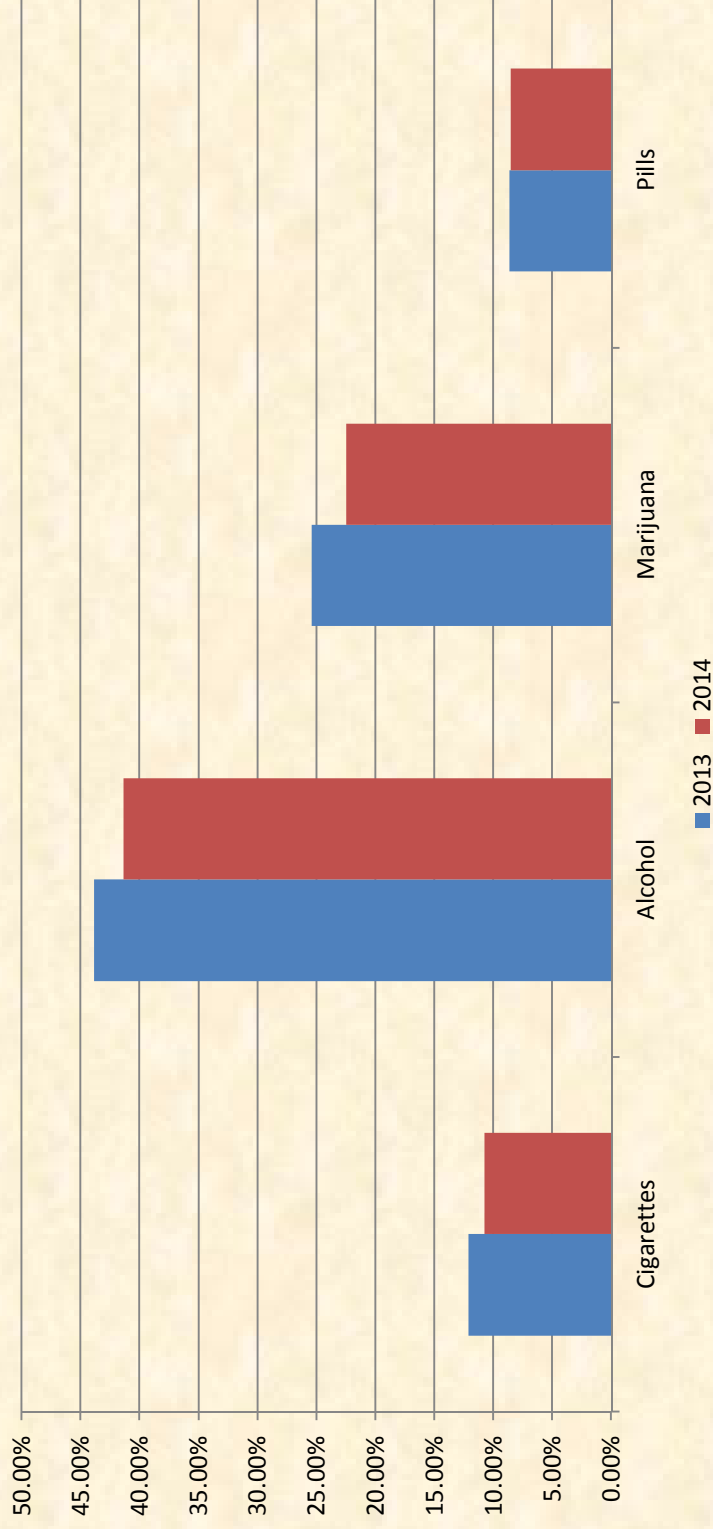
Cohort (Cluster) Groups (same data source)



What does this tell us about the change in behavior from one cohort group to another?

Time Series Data Presentation

- Reported Use Two Year Trend (composite)



What does this chart suggest about change over time?

Probability Table: Age of Onset

***Interpretative Note: For example, 100% of the grade 7 males who indicated being smokers**

	10 YEARS OR YOUNGER	11 YRS OLD	12 YRS OLD	13 YRS OLD	14 YRS OLD	15 YRS OLD	16 YRS OLD	17 YRS OLD	18 YRS OLD OR OLDER
Grade 7 Males	50.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 7 Females	0.00%	33.33%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 7 Total	20.00%	20.00%	20.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 8 Males	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 8 Females	20.00%	0.00%	20.00%	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 8 Total	16.67%	0.00%	33.33%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 9 Males	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Grade 9 Females	0.00%	11.11%	22.22%	11.11%	55.56%	0.00%	0.00%	0.00%	0.00%
Grade 9 Total	0.00%	9.09%	36.36%	9.09%	45.45%	0.00%	0.00%	0.00%	0.00%
Grade 10 Males	33.33%	0.00%	0.00%	0.00%	16.67%	50.00%	0.00%	0.00%	0.00%
Grade 10 Females	0.00%	0.00%	16.67%	8.33%	33.33%	33.33%	0.00%	0.00%	8.33%
Grade 10 Total	11.11%	0.00%	11.11%	5.56%	27.78%	38.89%	0.00%	0.00%	5.56%
Grade 11 Males	0.00%	0.00%	10.00%	0.00%	30.00%	30.00%	30.00%	0.00%	0.00%
Grade 11 Females	0.00%	0.00%	14.29%	7.14%	21.43%	35.71%	14.29%	7.14%	0.00%
Grade 11 Total	0.00%	0.00%	12.50%	4.17%	25.00%	33.33%	20.83%	4.17%	0.00%
Grade 12 Males	0.00%	5.88%	11.76%	11.76%	23.53%	11.76%	11.76%	11.76%	11.76%
Grade 12 Females	9.09%	0.00%	0.00%	18.18%	18.18%	27.27%	27.27%	0.00%	0.00%
Grade 12 Total	3.57%	3.57%	7.14%	14.29%	21.43%	17.86%	17.86%	7.14%	7.14%
Male Total	13.89%	.98%	36.96%	10.29%	11.70%	15.29%	6.96%	1.96%	1.96%
Female Total	4.85%	7.41%	17.75%	23.02%	21.42%	16.05%	6.93%	1.19%	1.39%
Grand Total	8.56%	5.44%	20.08%	20.52%	19.94%	15.01%	6.45%	1.88%	2.12%

At what age do most students start to smoke? Is there any gender difference?

PERCEPTION OF PARENTAL DISAPPROVAL

Percent Indicating Their Parents Would Consider the Behavior Wrong or Very Wrong

	Cigarettes	Alcohol	Marijuana	Pills
Grade 7 Males	95.29%	95.29%	92.94%	95.29%
Grade 7 Females	98.77%	98.77%	97.47%	100.00%
Grade 7 Total	96.99%	96.99%	95.12%	97.59%
Grade 8 Males	97.06%	94.12%	91.18%	96.04%
Grade 8 Females	94.59%	90.67%	88.00%	98.65%
Grade 8 Total	96.02%	92.66%	89.83%	97.14%
Grade 9 Males	90.79%	89.33%	90.67%	91.89%
Grade 9 Females	98.94%	90.43%	88.30%	100.00%
Grade 9 Total	95.29%	89.94%	89.35%	96.41%
Grade 10 Males	90.91%	83.33%	78.79%	96.97%
Grade 10 Females	88.61%	90.00%	88.46%	91.03%
Grade 10 Total	89.66%	86.99%	84.03%	93.75%
Grade 11 Males	94.20%	87.14%	84.29%	98.48%
Grade 11 Females	90.79%	76.32%	72.37%	100.00%
Grade 11 Total	92.41%	81.51%	78.08%	99.30%
Grade 12 Males	86.36%	72.31%	81.82%	90.77%
Grade 12 Females	92.86%	87.04%	81.82%	96.36%
Grade 12 Total	89.34%	78.99%	81.82%	93.33%
Male Total	92.44%	86.92%	86.61%	94.91%
Female Total	94.09%	88.87%	86.07%	97.67%
Grand Total	93.29%	87.84%	86.37%	96.25%

How do students perceive their parents disapproval of substance use?

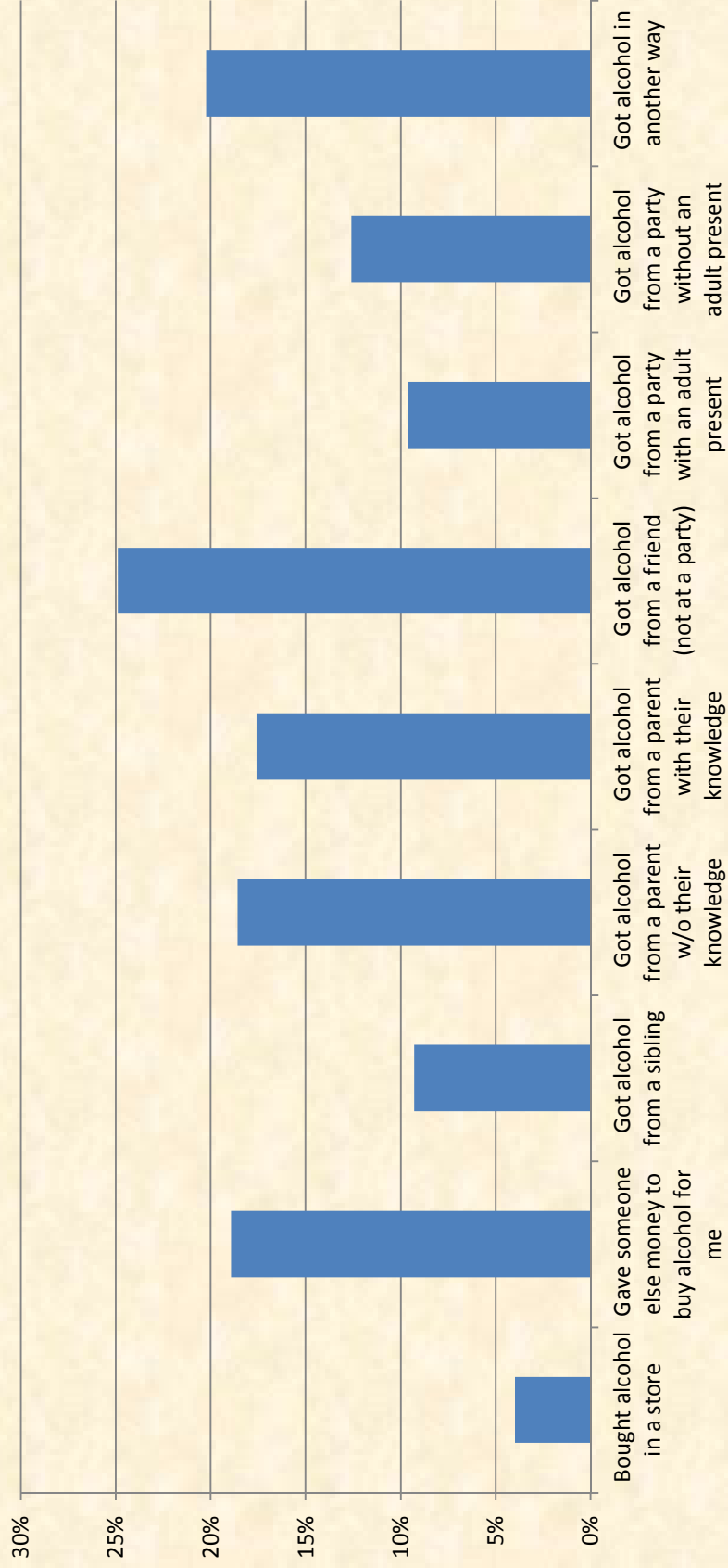
Perception of Peer Disapproval

	Cigarettes	Alcohol	Marijuana	Pills
Grade 7 Males	85.54%	89.41%	82.35%	88.24%
Grade 7 Females	94.94%	96.25%	93.83%	98.73%
Grade 7 Total	90.12%	92.73%	87.95%	93.29%
Grade 8 Males	91.09%	81.37%	71.57%	95.10%
Grade 8 Females	89.33%	85.33%	78.38%	92.00%
Grade 8 Total	90.34%	83.05%	74.43%	93.79%
Grade 9 Males	84.21%	77.63%	84.21%	89.47%
Grade 9 Females	90.43%	81.91%	79.79%	94.68%
Grade 9 Total	87.65%	80.00%	81.76%	92.35%
Grade 10 Males	80.60%	58.21%	55.22%	83.58%
Grade 10 Females	78.75%	72.50%	67.09%	86.08%
Grade 10 Total	79.59%	65.99%	61.64%	84.93%
Grade 11 Males	79.71%	42.03%	48.57%	81.43%
Grade 11 Females	85.33%	53.95%	42.67%	86.84%
Grade 11 Total	82.64%	48.28%	45.52%	84.25%
Grade 12 Males	78.79%	43.94%	39.39%	81.54%
Grade 12 Females	71.43%	50.00%	41.82%	82.14%
Grade 12 Total	75.41%	46.72%	40.50%	81.82%
Male Total	83.32%	65.43%	63.55%	86.56%
Female Total	85.03%	73.32%	67.26%	90.08%
Grand Total	84.29%	69.46%	65.30%	88.40%

What does this table suggest? How does peer disapproval vary from parental disapproval?

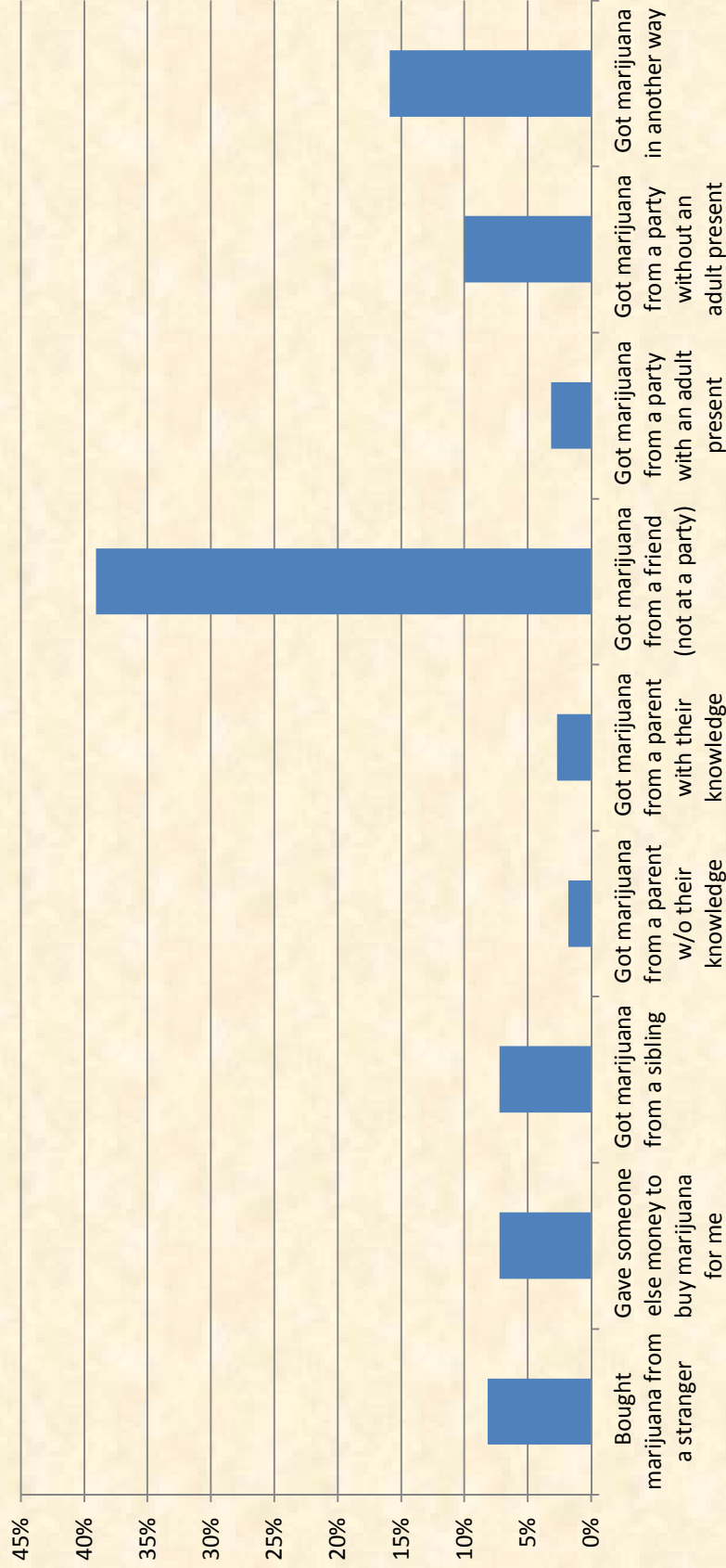
Sources of Alcohol

Percent of Those Who Used Alcohol Over the Last 30 Days
Indicating Yes

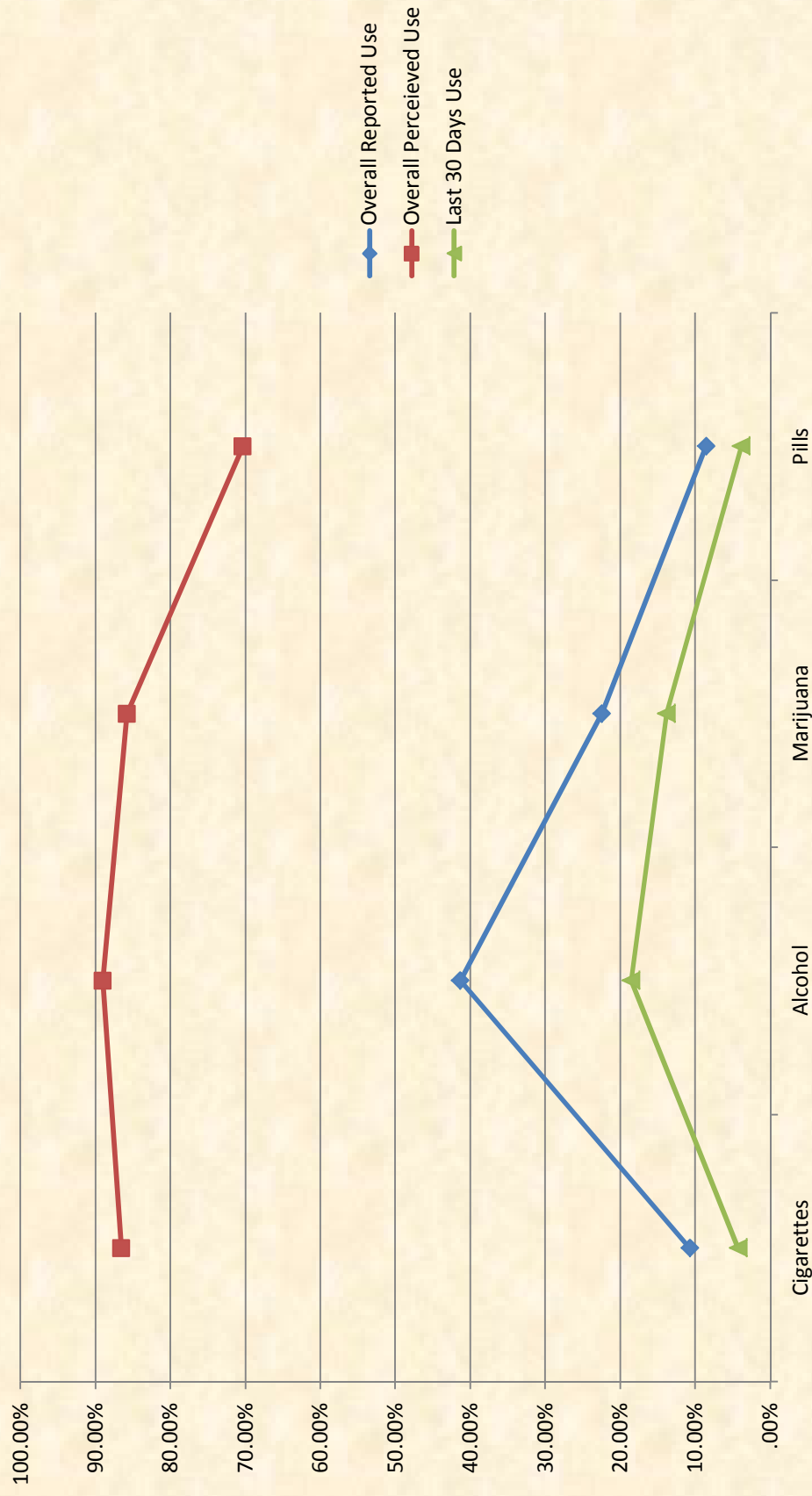


Sources of Marijuana

Percent of Those Who Used Marijuana Over the Last 30 Days Indicating Yes



Line Graph (comparative)



What story does this line graph tell?

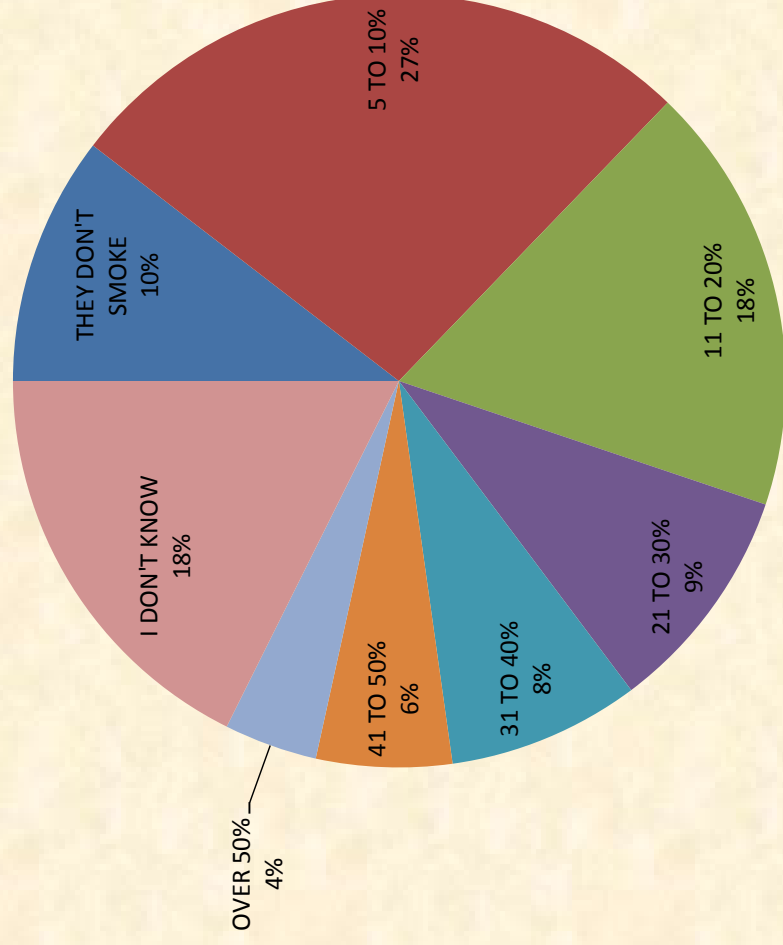
Perception of Overall Non-Use (single question response)

	They don't smoke Cigarettes	They don't smoke Marijuana	They don't drink Alcohol	They don't take any Pills
Grade 7 Males	49.12%	50.94%	47.27%	65.31%
Grade 7 Females	30.77%	31.25%	38.46%	39.02%
Grade 7 Total	40.37%	41.58%	42.99%	53.33%
Grade 8 Males	32.88%	17.72%	24.05%	65.15%
Grade 8 Females	17.86%	6.67%	8.33%	33.33%
Grade 8 Total	26.36%	12.95%	17.27%	51.28%
Grade 9 Males	6.45%	6.15%	6.78%	27.45%
Grade 9 Females	0.00%	0.00%	2.56%	7.46%
Grade 9 Total	2.84%	2.76%	4.38%	16.10%
Grade 10 Males	4.84%	4.76%	12.50%	28.30%
Grade 10 Females	1.43%	1.39%	5.63%	21.05%
Grade 10 Total	3.03%	2.96%	8.89%	24.55%
Grade 11 Males	7.69%	3.08%	6.45%	23.64%
Grade 11 Females	0.00%	1.35%	2.82%	10.91%
Grade 11 Total	3.85%	2.16%	4.51%	17.27%
Grade 12 Males	6.35%	6.35%	7.94%	20.00%
Grade 12 Females	1.89%	0.00%	6.25%	9.30%
Grade 12 Total	4.31%	3.48%	7.21%	15.31%
Male Total	17.89%	14.83%	17.50%	38.31%
Female Total	8.66%	6.78%	10.68%	20.18%
Grand Total	13.46%	10.98%	14.21%	29.64%

Any thoughts about what this might help us to understand?

Pie Charts

In your opinion, what percentage of students in your school smokes cigarettes?



What do students think about their peers and cigarette smoking?

Bullet Points from Data

If you wanted to get some beer, wine, or hard liquor, how hard or easy would it be for you to get some?

- Almost half (50%) indicated it would be sort of or very easy to get some alcohol.

How hard or easy would it be for you to get alcohol from your home without your parent's consent?

- Thirty-one percent (31%) indicated it would be sort of or very easy to get some alcohol.

How hard or easy would it be for you to get alcohol at a party with friends?

- Forty-three percent (43%) indicated it would be sort of or very easy.

How hard or easy would it be for you to get alcohol from a friend who is under 21 years of age when you're not at a party?

- Thirty percent (30%) indicate it would be sort of or very easy.