University of Waterloo W. H. Cherry

STATISTICAL HIGHLIGHTS TITLES (Listed alphabetically)

[For the 'ERROR' and 'RELATIONSHIPS' Highlights, their numbers are also shown at the right in the order of the sequence of *ideas*.]
[A Highlight number with a right hand (☞) indicates a suggested entry point into a main topic with multiple entries.]

1. ACCURACY OF INFORMATION: Claude Émile Jean-Baptiste Litre [4 sides]
2. CONFIDENCE INTERVALS: Quantifying Sampling (and Measuring) Imprecision for Some Types of Questions [18 sides]
3. 'CONFOUNDING' – Useage in Statistics [4 sides]
4. DISCRETE PROBABILITY HISTOGRAMS: Hypergeometric, Binomial, Negative Binomial and Poisson Distributions [4 sides]
5. EIKOSOGRAMS: Visualizing Probabilities [10 sides]

	No.	Topic	Title	Sequence of ideas
☞	6.	ERROR:	An Introduction – Categories, Definitions and Management Strategies [6 sides]	6.
	7.		Bias and Rms Error [2 sides]	18.
	8.		Categorization of Error in the Social Sciences [2 sides]	22.
	9.		Comparison Error in Experimental Plans and Observational Plans – The Confounding Effect [12 sides]	16.
	10.		Comparison Error – Quantifying a Treatment Effect under EPA in Experimental Plans [6 sides]	17.
	11.		Measurement error – *Poorly phrased census questions costly / Perhaps if you rephrased* ... [4 sides]	21.
	12.		Measurement error – *Deficit outranks jobs in poll / Liberals near majority,* Globe *poll* ... [4 sides]	19.
	13.		Measurement error – *Myth of poor worker training attacked / The attack on red wine's hearty* ... [2 sides]	20.
	14.		Measurement error – *The mismeasure of statistical reckoning* [2 sides]	11.
	15.		Measurement error – Youden's *Enduring Values* [2 sides]	12.
	16.		Non-response error – *Residents in Toronto crankiest, poll finds / Opinion polls skewed by folks* ... [2 sides]	13.
	17.		Non-response error – *The Literary Digest* Poll [2 sides]	14.
	18.		Overall Error for Questions with a Descriptive Aspect [6 sides]	15.
	19.		Sample Error – Illustrations from the Set of All Possible Samples for a Population [4 sides]	9.
	20.		Sample Error – *Schneider's won't get rebate over blood spilled into sewer / Dog impresses scientitsts* ... [2 sides]	10.
	21.		Sample Error – Why Does Introductory Statistics Teaching Emphasize 'Random' Selecting? [8 sides]	7.
	22.		Study Error – *Miracle cure that kills claims fifth victim* [2 sides]	8.
☞	23.	GRAPHICAL ATTRIBUTES:	An Introduction to Graphical Excellence – Napoleon's Russian Campaign [2 sides]	
	24.		*Heroic self-sacrifice cut death toll at WTC* [2 sides]	
	25.		Histograms – Civil Service Examination Scores [2 sides]	
	26.		Histograms – How To Construct Them	
	27.		*Looking beyond the natural gas glut / Study shows Canadians' tax burden is* ... [2 sides]	
	28.		Nicotine Exposure in Cigarette Smoking Cessation [2 sides]	
	29.		Scatter Diagrams [2 sides]	
	30.		Scatter Diagrams – Pearson's Parent-Child Height Data (reconstructed)	
	31.		Scatter Diagrams – The *Challenger* Disaster [3 sides]	
	32.		Stemplots – *7 deadly days* [2 sides]	
☞	33.	MEASURING:	An Introduction [2 sides]	
	34.		*Are we too obsessed with real GDP? / How does McDonald's know it's sold 70 billion?* [2 sides]	
	35.		Dating the Shroud of Turin [2 sides]	
	36.		*Do lefties live as long as righties? Debate rages on / Kids don't know their geography* [3 sides]	
	37.		*Drawing the line on drinking and driving / 15,000 census-takers count U.S. homeless / Forget standard* ... [4 sides]	
	38.		Measuring Processes [8 sides]	
☞	39.		Paper Thickness [2 sides]	
	40.		*Random violence skews crime perception / How risk affects* ... */ Seven shuffles are* ... */ Court cuts* ... [4 sides]	
	41.		Ranking Student Performance [2 sides]	
	42.		*Shrinking kilogram sows mass* ... */ Self-esteem loses* ... */ New scoring system* ... */ Better off red* [6 sides]	
	43.		Canadian Census Data Gathering – *Tallying where none has gone before / Census feeds passion* ... [6 sides]	
	44.		*The war over 'who is poor' / New yardstick places more people in poverty /* ... */* ... */* ... [7 sides]	
	45.		*Violence survey takes toll on staff / 50% of women report assaults / Measuring university* ... [4 sides]	
	46.	PARADOXES:	Ali-Baba Paradox [2 sides]	
	47.		Apple Pie Paradox [2 sides]	
	48.		Efron's Dice [2 sides]	
	49.		Monty Hall / Three Prisoners' Dilemma [4 sides]	
	50.		Silver car/grey car [2 sides]	
☞	51.		Simpson's Paradox [8 sides]	
☞	52.	REGRESSION:	An Introduction – Overview of the Ideas [12 sides]	
	53.		Anscombe's Four Simple Linear Regression Data Sets [2 sides]	
	54.		Minimizing *Perpendicular* Distances [2 sides]	
	55.		The Regression Effect	
	56.		*Will women soon outrun men?* [2 sides]	Sequence of ideas: 57.
☞	57.	RELATIONSHIPS IN STATISTICS:	An Introduction [2 sides]	58.
	58.		Association – Statistical Issues [2 sides]	66
	59.		Association Among Variates and Causation [2 sides]	61.
	60.		Association and Causation – Reality and Illusion [4 sides]	62.
☞	61.		Causation – An Introduction [2 sides]	59.
	62.		Causation – Statistical Issues [2 sides]	60.
	63.		Comparative Plans – Tereminology and the Protocol for Choosing Groups [6 sides]	63.

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(*continued overleaf*)

	No.	Topic	Title	Sequence of ideas
	64.	RELATIONSHIPS IN STATISTICS: (continued)	Comparative Plans and Causal Structures [4 sides]	64.
☞	65.		Connections Among Three Variates [2 sides]	65.
☞	66.		Correlation: Its Properties and Its Interpretation [16 sides]	68.
	67.		*Health Canada saw danger to district* [2 sides]	69.
	68.		Protocol for Setting Levels and Interaction [2 sides]	67.
	69.		Simpson's Paradox and Interaction [4 sides]	70.
	70.		*To skeptics, seeing isn't believing* [2 sides]	
☞	71.	RESPONSE MODELS IN STAT 231:	An Introductory Overview [2 sides]	
	72.		Definitions of Symbols [2 sides]	
	73.		Least Squares Estimating of Parameters [2 sides]	
	74.		Modelling Sample Error and Measurement Error [10 sides]	
☞	75.	SAMPLING and SURVEY SAMPLING:	An Introduction to Survey Sampling [4 sides]	
☞	76.		Equiprobable Selecting – Diagrammatic Illustrations [8 sides]	
	77.		Estimating a Population Average or Total [14 sides]	
	78.		How Polls Are Conducted [2 sides]	
	79.		Polling – *Polling has become a form of disinformation* [2 sides]	
	80.		Polling – *Scientific side of opinion polls doesn't stand up* [2 sides]	
	81.		Polling – *Support for NAFTA growing, poll says / Trade deal dangerous,...* [2 sides]	
	82.		Polling – *The polls dance to anybody's tune* [4 sides]	
	83.		Question Aspect and Method of Sample Selecting [4 sides]	
	84.		Sample Selecting and Unit (or Element) Inclusion Probabilities[4 sides]	
	85.		Selecting Protocols Beyond Equiprobable Selecting [4 sides]	
	86.		*The extent of sexual violence in women's lives / 50% of women report ... / ...* [6 sides]	
☞	87.	STATISTICS and STATISTICAL METHODS:	An Introduction – What is Statistics About? [2 sides]	
	88.		FDEAC CYCLE – An Overview [20 sides]	
	89.		FDEAC CYCLE – Experimental and Observational Plans [18 sides]	
	90.		FDEAC CYCLE – Questions and Statistical Questions [2 sides]	
	91.		Glossary for Introductory Statistics – Distinctions and Notation [24 sides]	
	92.		*Dubious data awards highlight statistical follies / Science stories ...* [2 sides]	
	93.		*Ignorance on parade* [2 sides]	
	94.		Populations and Processes and Their Broader Implications [12 sides]	
	95.		Process improvement – *Factory magic* [4 sides]	
	96.		Process improvement – W. Edwards Deming: A System of Profound Knowledge	
	97.		Process improvement – *Sweating the details*	
	98.		Process improvement – *The key role of statisticians ... North American industry* [4 sides]	
	99.		*Sex, statistics and wages / Women's occupations still lowest-paying,...* [3 sides]	
	100.		Standard Deviation and Standard Pairwise Difference as Measures of Variation [10 sides]	
	101.		*Why IQ testing is junk science* [2 sides]	
	102.		*Why, to science, the law's an ass* [2 sides]	
☞	103.	TABLES:	How To Construct Effective Tables [6 sides]	
	104.		Probabilities for the Standard Normal Distribution (4- and 5-figure, 4- and 6-figure versions) [2 sides]	
	105.		Percentiles for the *K* Distribution [2 sides]	
	106.		University of Waterloo Distinguished Teacher Awards, 1976-1990 [2 sides]	