CASE : Automotive Stocks

Symbol	Company Name	Last Price	P/E Ratio (TTM)	Forward P/E	1yr Target Est	Prev Close	Market Cap	Daily Gain	Potential Gain
005380.KS	Hyundai Motor Company	214,500.00	--	--	282,071.44	217,000.00	52.953T	-1.2%	31.5%
VOW3.DE	Volkswagen AG	90.62	5.41	3.37	113.35	92.22	46.016B	-1.7%	25.1%
BMW.DE	Bayerische Motoren Werke Aktiengesellschaft	85.74	9.24	6.23	88.87	84.82	52.233B	1.1%	3.7%
MBGYY	Mercedes-Benz Group AG	15.47	7.4	--	13.45	15.16	60.243B	2.0%	-13.1%
TM	Toyota Motor Corporation	198.79	9.03	12.6	235.27	197.28	261.443B	0.8%	18.4%
7201.T	Nissan Motor Co., Ltd.	371.2	--	5.51	334.69	381.90	1.296T	-2.8%	-9.8%
TSLA	Tesla, Inc.	428.35	253.55	132.25	338.81	423.39	1.425T	1.2%	-20.9%
RIVN	Rivian Automotive, Inc.	15.69	--	-5.73	14.13	15.74	19.058B	-0.3%	-9.9%
STLA	Stellantis N.V.	9.23	--	3.1	10.94	9.31	27.736B	-0.9%	18.5%
HMC	Honda Motor Co., Ltd.	33.21	11.33	6.7	37.19	33.40	43.19B	-0.6%	12.0%
GM	General Motors Company	61.08	9.33	5.78	61.36	60.59	58.172B	0.8%	0.5%
F	Ford Motor Company	12.02	15.42	6.87	11.00	11.62	47.879B	3.4%	-8.5%

CASE : Comparison of Nutritive Values of Corn Diets
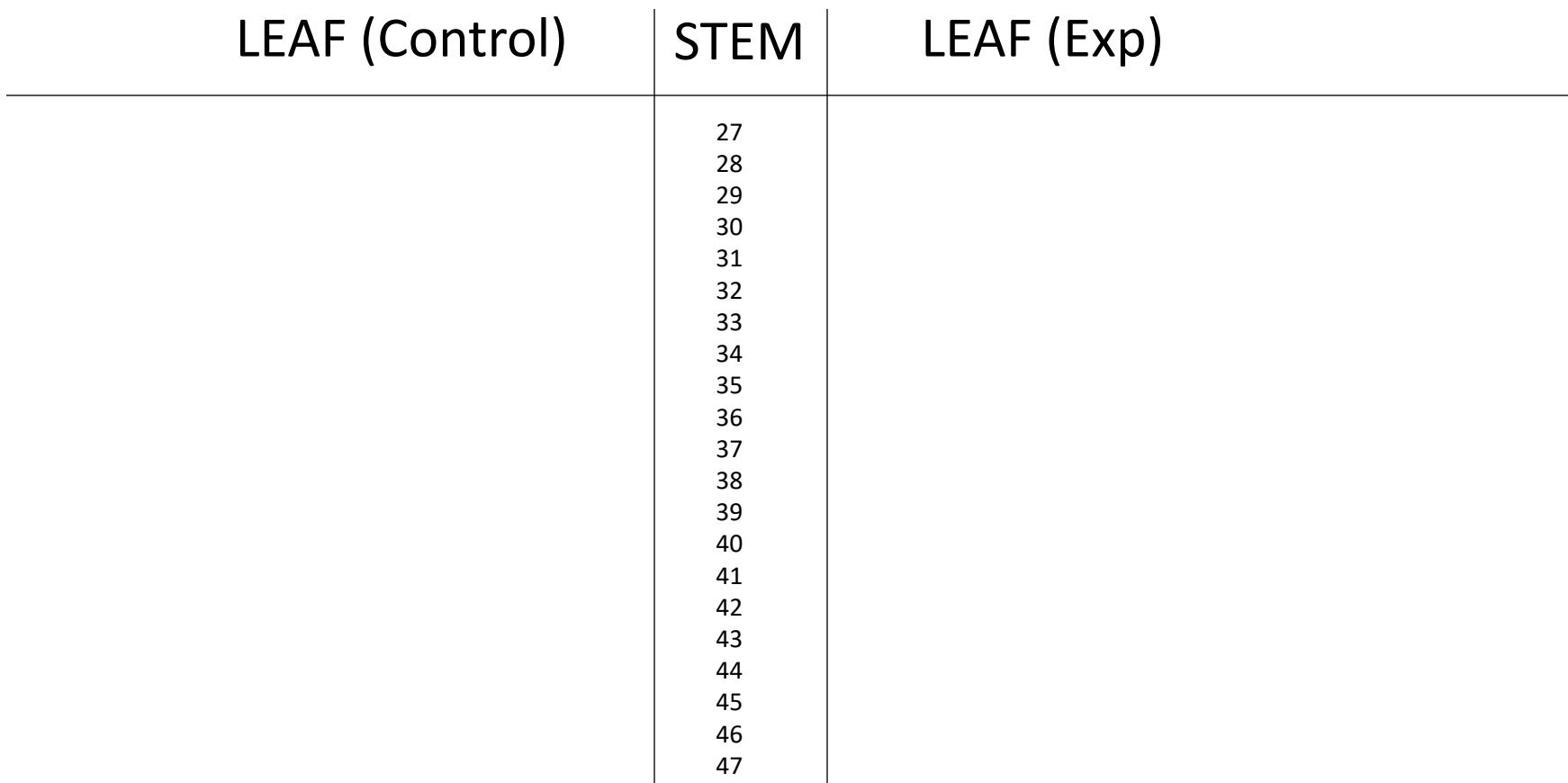
Plant scientists have developed varieties of corn that have increased amounts of the essential amino acid lysine. In a test of the protein quality of this corn, an experimental group of 20 one-day-old male chicks was fed a ration containing the new corn. A control group of another 20 chicks was fed a ration that was identical except that it contained normal corn. Here and in CORN.MTW are the weight gains (in grams) after 21 days. (Based on G. L. Cromwell et al., "A comparison of the nutritive value of *opaque-2*, *floury-2* and normal corn for the chick," *Poultry Science*, 47 (1968), pp. 840–847.)

Control				Experimental			
380	321	366	356	361	447	401	375
283	349	402	462	434	403	393	426
356	410	329	399	406	318	467	407
350	384	316	272	427	420	477	392
345	455	360	431	430	339	410	326

Back-to-Back Stemplot

Control				Experimental			
380	321	366	356	361	447	401	375
283	349	402	462	434	403	393	426
356	410	329	399	406	318	467	407
350	384	316	272	427	420	477	392
345	455	360	431	430	339	410	326

LEAF (Control)	STEM	LEAF (Exp)
	27	
	28	
	29	
	30	
	31	
	32	
	33	
	34	
	35	
	36	
	37	
	38	
	39	
	40	
	41	
	42	
	43	
	44	
	45	
	46	
	47	

Back-to-Back Stemplot

Control				Experimental			
380	321	366	356	361	447	401	375
283	349	402	462	434	403	393	426
356	410	329	399	406	318	467	407
350	384	316	272	427	420	477	392
345	455	360	431	430	339	410	326

LEAF (Control)	STEM	LEAF (Exp)
	2	
	3	
	4	

Split Back-to-Back Stemplot

Key
3|80 = 380

Control				Experimental			
380	321	366	356	361	447	401	375
283	349	402	462	434	403	393	426
356	410	329	399	406	318	467	407
350	384	316	272	427	420	477	392
345	455	360	431	430	339	410	326

LEAF (Control)	STEM	LEAF (Exp)
	2	
72 83	2	
31 16 29 49 21 45	3	18 39 26
99 56 60 66 84 50 56 80	3	61 93 75 92
02 10	4	34 06 27 30 47 03 20 01 10 26 07
62 55	4	67 77
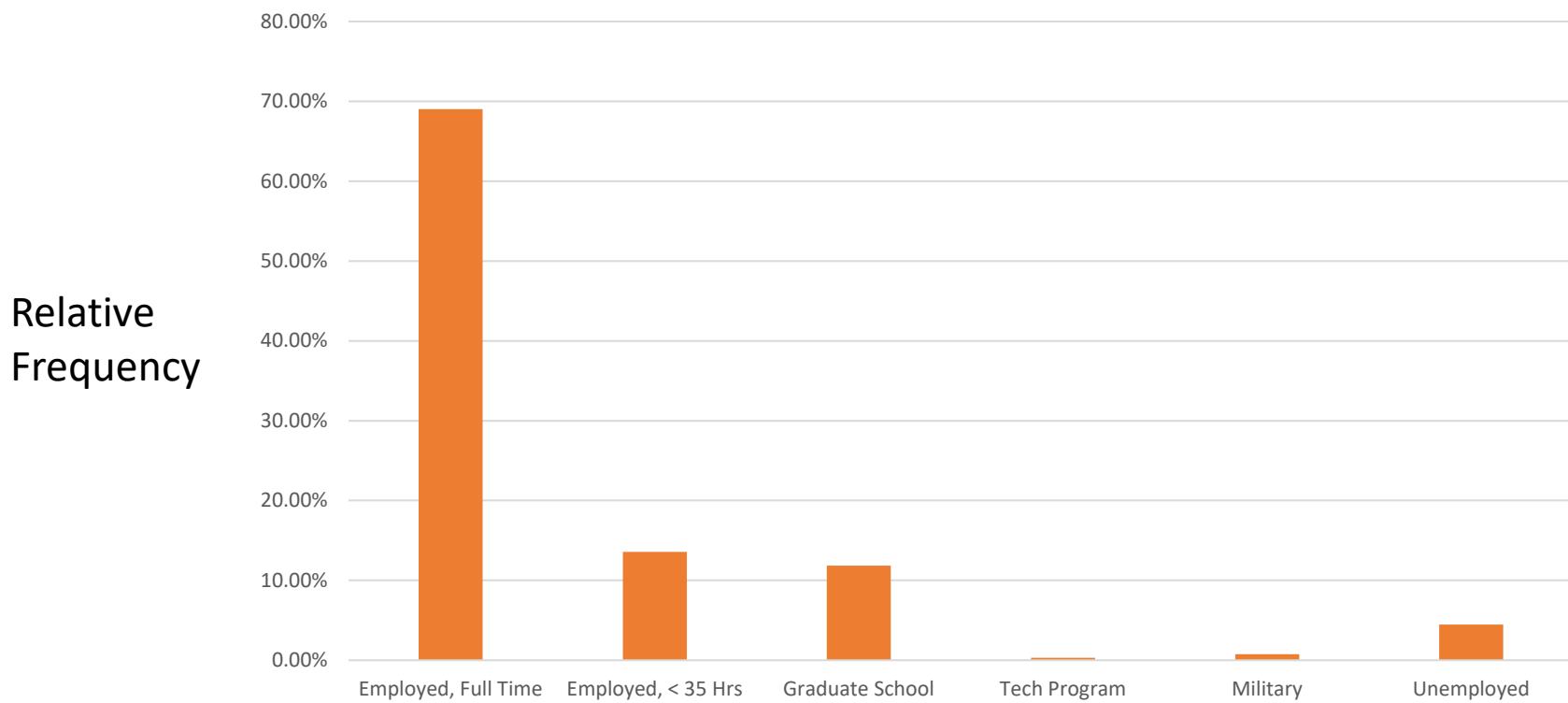
CASE : Primary Activity of EWU Graduates

- A survey involving a sample of 649 EWU graduates gave the following results regarding the graduates' primary activity following graduation.

Primary Activity	Frequency	Rel.Freq.
Employed, Full Time	448	69.0%
Employed, < 35 Hrs	88	13.6%
Graduate School	77	11.9%
Tech Program	2	0.3%
Military	5	0.8%
Unemployed	29	4.5%
Total	649	100.0%
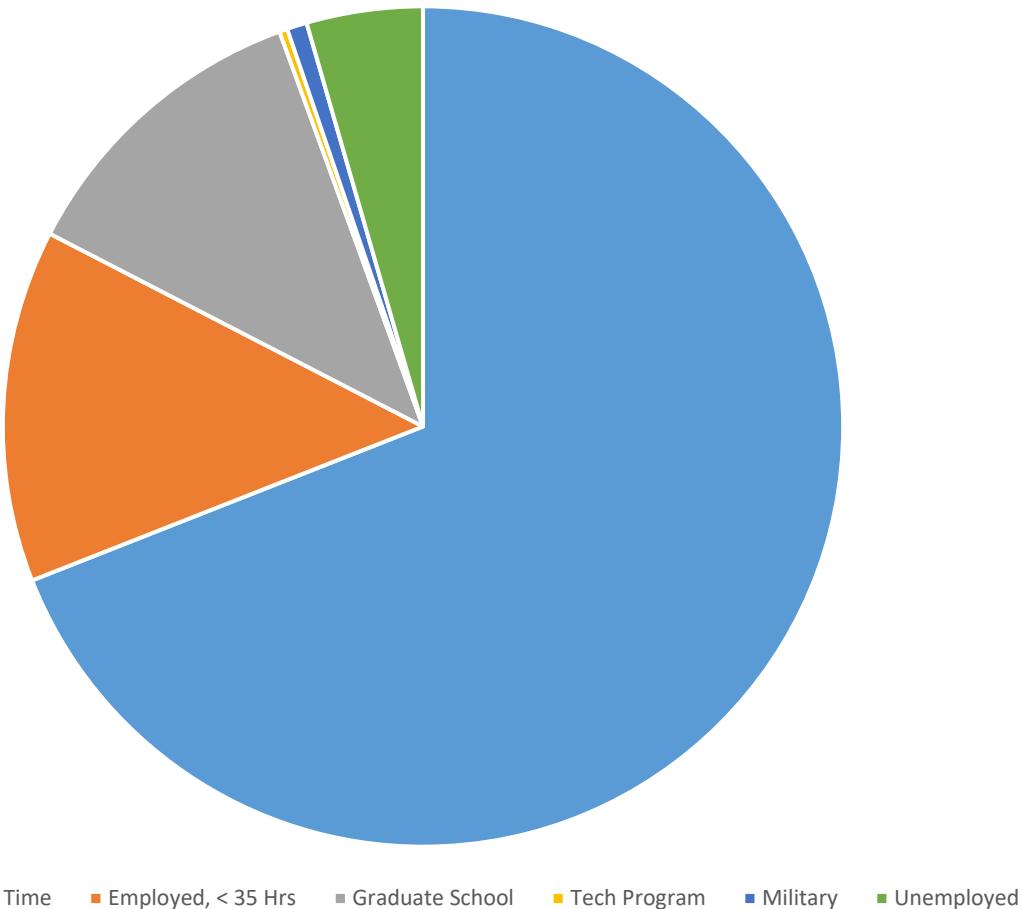
CASE : Primary Activity of EWU Graduates
Barchart

CASE : Primary Activity of EWU Graduates
Piechart

Employed, Full Time ■ Employed, < 35 Hrs ■ Graduate School ■ Tech Program ■ Military ■ Unemployed

CASE : Top 10 Causes of Death in the US

National Center for Health Statistics

NCHS Home > FastStats Homepage > Life Stages and Populations > Deaths

🏠 FastStats Homepage

Diseases and Conditions +

Infectious/Immune +

Family Life +

Health Care and Insurance +

Disability and Risk Factors +

Injuries +

Life Stages and Populations −

Age Groups +

Births +

Leading Causes of Death

Data are for the U.S.
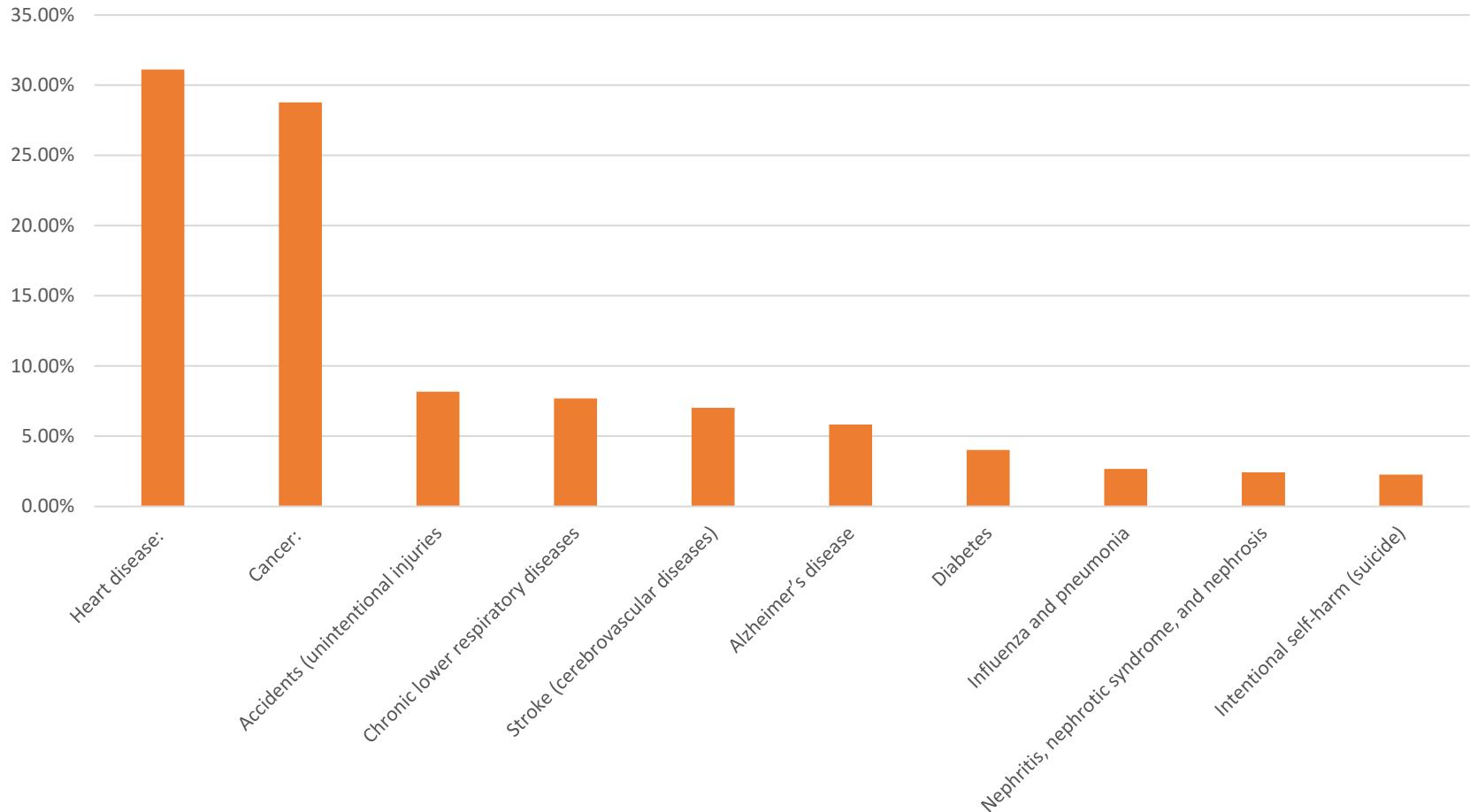
Number of deaths for leading causes of death

- Heart disease: 647,457
- Cancer: 599,108
- Accidents (unintentional injuries): 169,936
- Chronic lower respiratory diseases: 160,201
- Stroke (cerebrovascular diseases): 146,383
- Alzheimer's disease: 121,404
- Diabetes: 83,564
- Influenza and pneumonia: 55,672
- Nephritis, nephrotic syndrome, and nephrosis: 50,633
- Intentional self-harm (suicide): 47,173

NCHS 2017
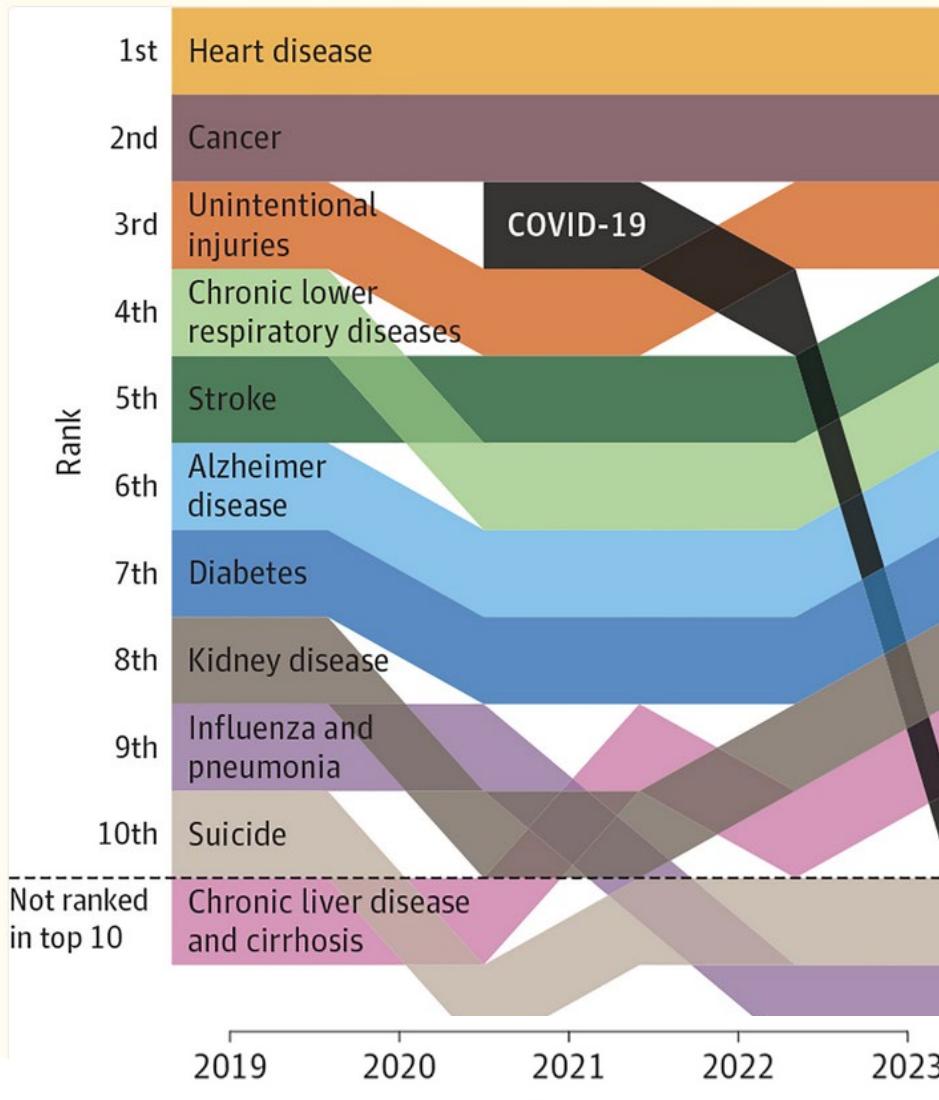
CASE : Top 10 Causes of Death in the US
Pareto chart

Top 10 Leading Cause of Death in the US

CASE : Leading Causes of Death in the US

Figure. Trends in the Ranking of Leading Causes of Death—US, 2019–2023.

Source: National Center for Health Statistics. National Vital Statistics System. Data for 2019–2022 are final. Data for 2023 are provisional.

Main Features of a Distribution

Symmetrical: Both sides of the distribution are approximately identical mirror images. There is a *line* of symmetry.

Skewed: One tail is stretched out longer than the other. The direction of skewness is on the side of the longer tail. (Right skewed vs. left skewed)
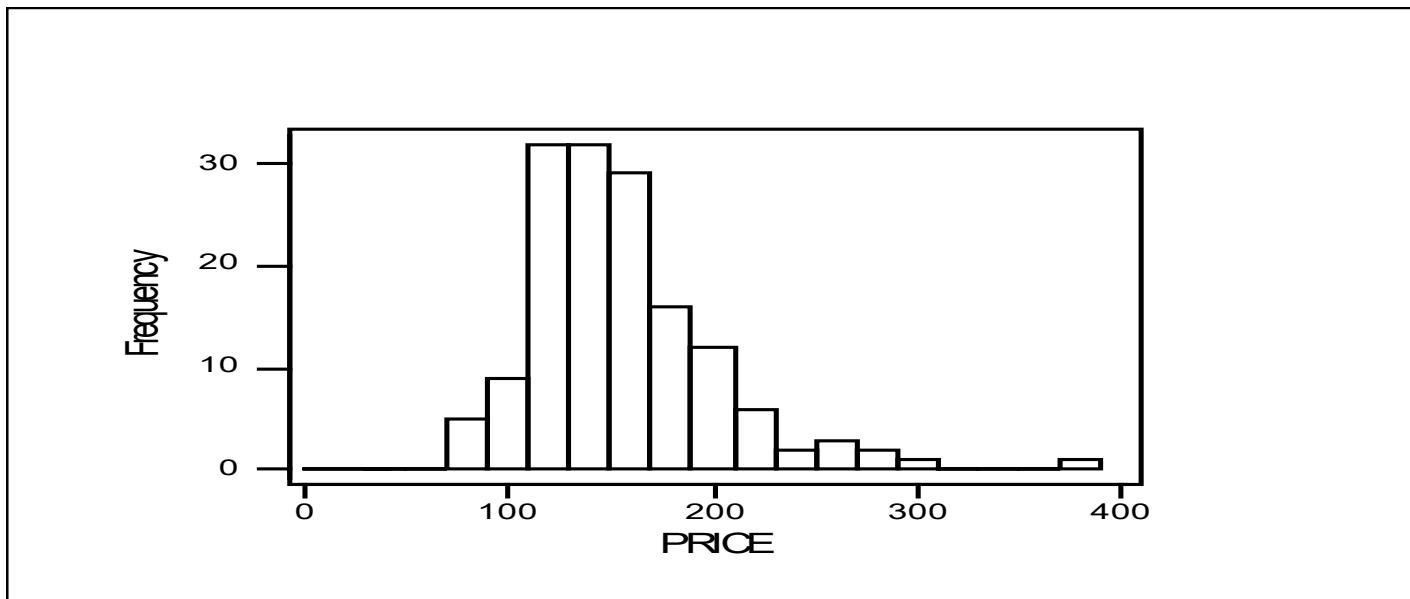
Bimodal/Unimodal: The distribution is bimodal (unimodal) if the distribution has two (one) major peak(s). The two largest classes are separated by one or more classes. Often implies two populations are sampled.

Normal: A symmetrical distribution is mounded about the mean and becomes sparse at the extremes

Outliers are isolated observations that deviate significantly from the "main" population.
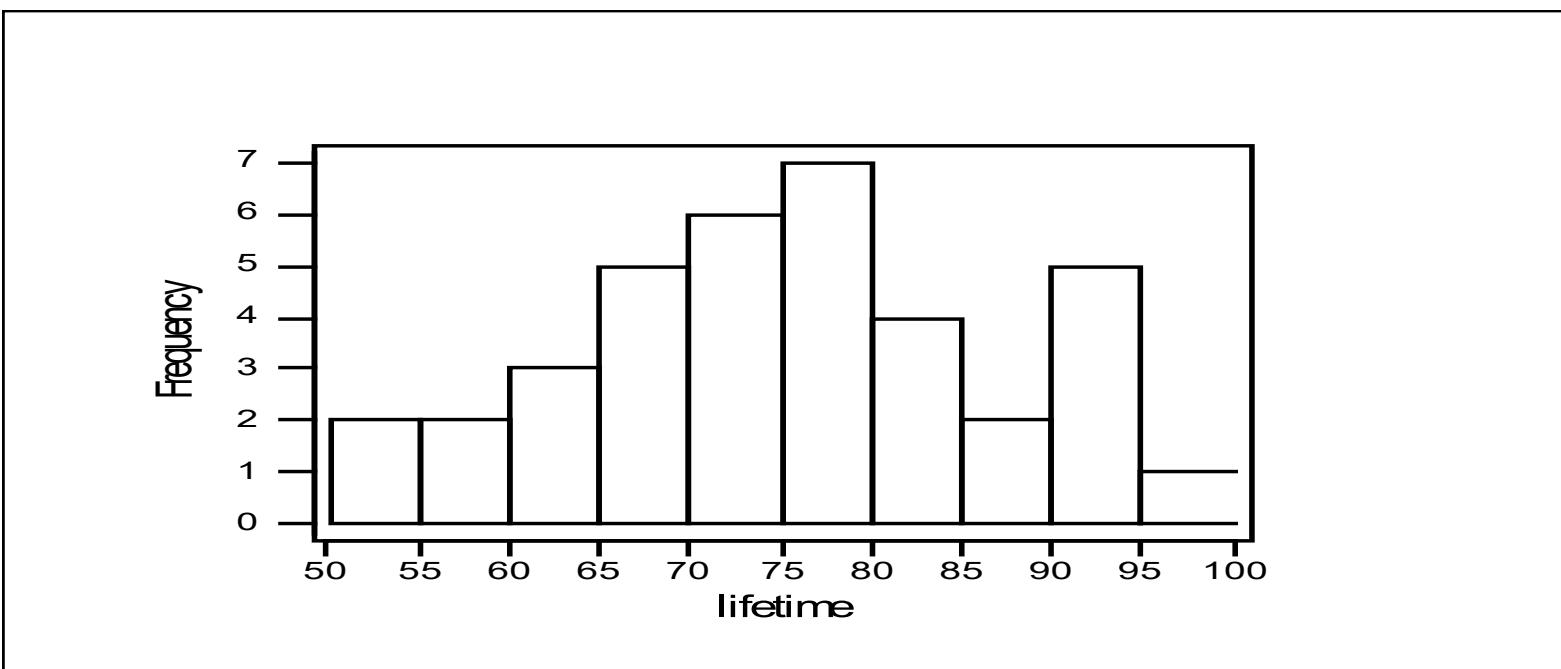
Real Estate Prices

- The histogram below shows the real estate prices for 150 homes that were sold by a given real estate company. (prices in thousands of dollars)
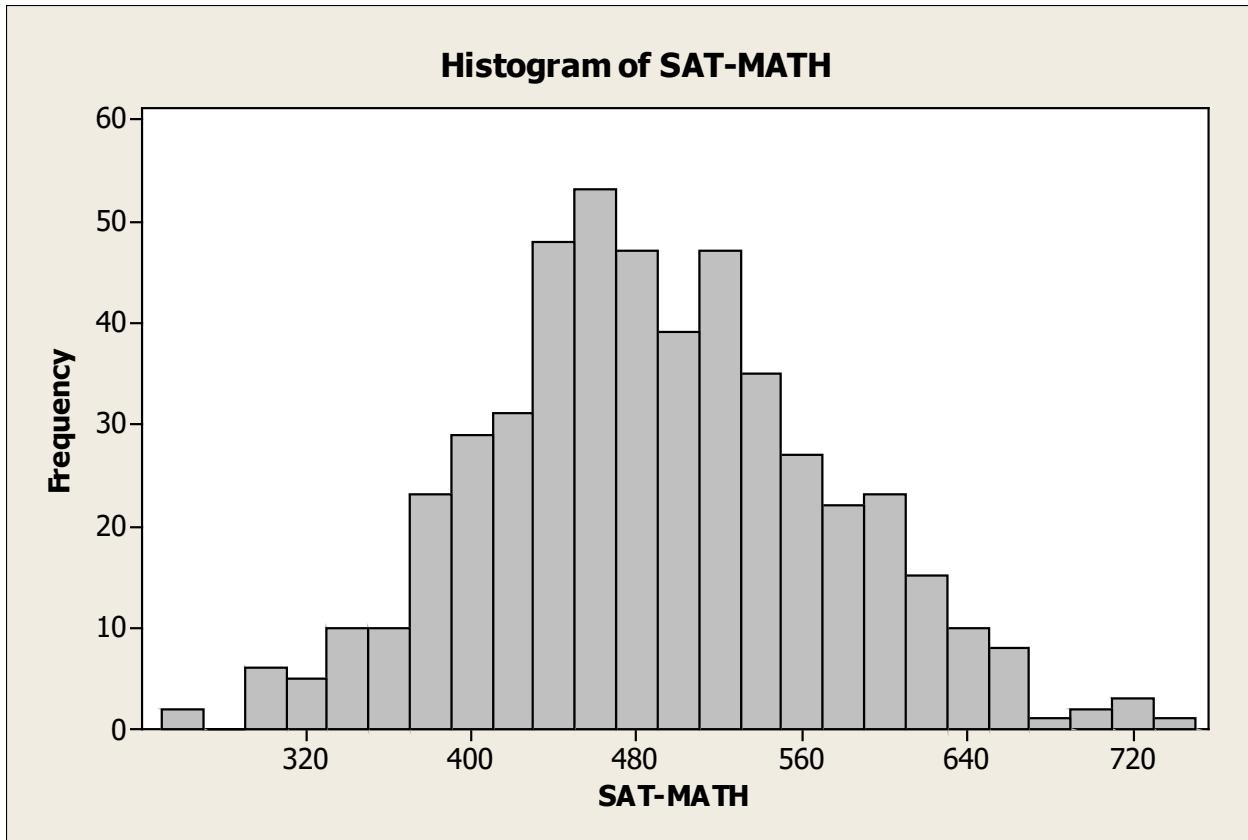
Human Life Data
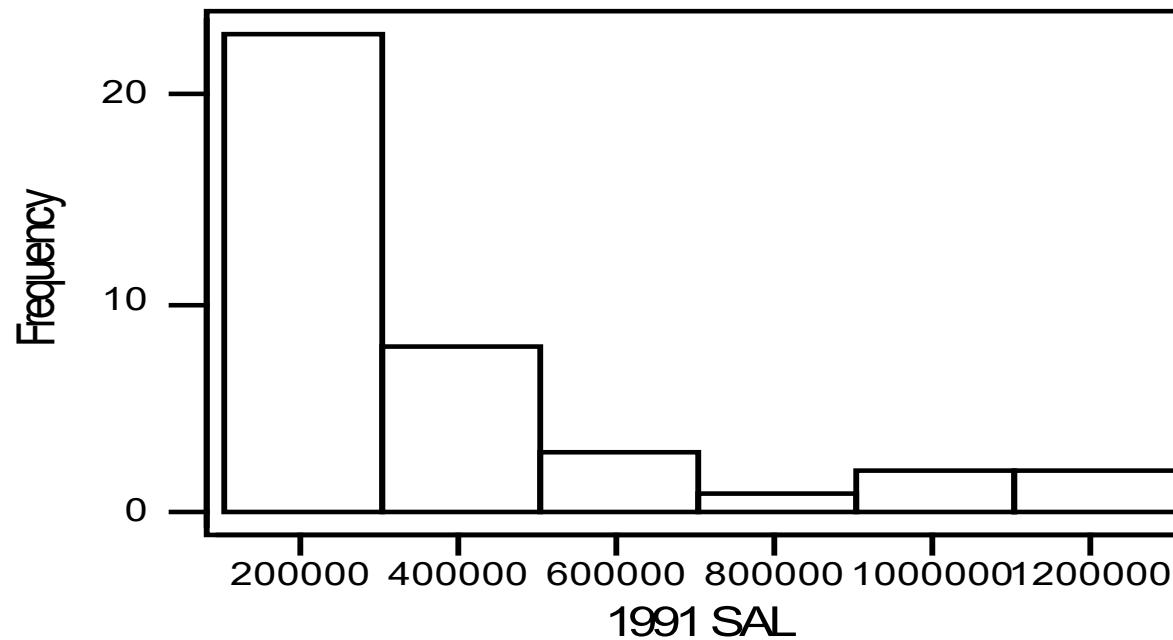
- The histogram below shows the age at death for a sample of people (men and women combined).

SAT-MATH Scores for Incoming EWU Freshmen

Salary Data for
NFL Football Players (1991)

Salary Data for NFL Football Players – 30 years later

Chiefs quarterback Patrick Mahomes signed the biggest deal in NFL history, a 10-year contract valued at $450 million. He and other star athletes bring home huge paychecks. But, what happens to Mr. Irrelevant? That's the title given to the last player chosen in the annual NFL draft. In 2020, Giants linebacker Tae Crowder received the honors as the final 255th pick.

Although picked last, he still managed to secure a four-year contract that promises an average base salary of $610,000. The Giants rookie is not the lowest-paid player in the NFL. Those bragging rights belong to a little-known tight end from the Seattle Seahawks.

The lowest-paid NFL player for the 2019-20 season was none other than Seattle Seahawks' tight end Tyrone Swoopes. The 25-year old free agent was drafted in 2017 and has been signed and waived nine times from the Seahawks' practice squad.

According to 7Up Sports, Swoopes was the lowest on the list, receiving a paltry salary of just $378,000. By NFL standards, this doesn't amount to much considering the toll the sport takes on the athlete's body. To the average Joe, it's not chump change, and earning $24,000 per game is not a bad deal.