

Türk Sağlık Harcamaları İstatistikleri

Sağlık hizmeti sunucularına göre sağlık harcamaları (milyon TL)

Yıl	Genel devlet (X1)	Özel Sektör (Y1)
1999	3068	1937
2000	5190	3058
2001	8438	3598
2002	13270	5504
2003	17462	6817
2004	21389	8472
2005	23987	11372
2006	30116	13953
2007	36530	16374
2008	42159	15580
2009	46890	11021
2010	48482	13196
2011	54580	14029
2012	58785	15404
2013	66228	18162
2014	73382	21368
2015	82121	22446
2016	94012	25744
2017	109744	30904
2018	128021	37213
2019	156819	44212

Aritmetik Ortalama

Genel Delet Aritmetik Ortalama

$$\bar{x} = \frac{1}{N} \sum x_i = \frac{x_1 + x_2 + \dots + x_n}{N}$$

$$\bar{x} = \frac{3068 + 5190 + 8438 + \dots + 156819}{21} = A.O \text{ Pepsi toplam Masrafları}$$

$$\bar{x} = \frac{1118653}{21} = 53269,190 \rightarrow \text{Genel Delet Aritmetik Ortalama}$$

Özel Sektör Aritmetik Ortalama

$$\bar{y}_i = \frac{1937 + 2058 + 3958 + \dots + 46212}{21}$$

$$\bar{y}_i = \frac{740883}{21} = 16232,523$$

Deletin Aralığı

$2(x_{\max} - x_{\min})$

$$\text{Genel Delet} = \frac{\max}{156819} - \frac{\min}{3068} = 153771$$

$$\text{Özel Sektör} = 46212 - 1937 = 44275$$

Standart Sapma ve Varyans

Genel Delet (A.O)

$$1999 \quad (3068 - 53269)^2 = (-50221)^2 = 2522148841$$

$$2000 \quad (5190 - 53269)^2 = (-48079)^2 = 2311590241$$

$$2001 \quad (8438 - 53269)^2 = (-44831)^2 = 2009818561$$

$$2002 \quad (13270 - 53269)^2 = (-39999)^2 = 1599920001$$

$$2003 \quad (17462 - 53269)^2 = (-35807)^2 = 1282141249$$

$$2004 \quad (21383 - 53269)^2 = (-31886)^2 = 1016534400$$

$$2005 \quad (23987 - 53269)^2 = (-29282)^2 = 857435523$$

$$\begin{aligned}
2006 & (50116 - 53269) = (-23153)^2 = 536061409 \\
2007 & (74530 - 53269) = (-18733)^2 = 351150121 \\
2008 & (42159 - 53269) = (-11110)^2 = 123432100 \\
2009 & (46830 - 53269) = (-6379)^2 = 40691641 \\
2010 & (48682 - 53269) = (-4787)^2 = 27915369 \\
2011 & (54580 - 53269) = (-1311)^2 = 1718721 \\
2012 & (58785 - 53269) = (-5516)^2 = 30426256 \\
2013 & (66278 - 53269) = (-12959)^2 = 167935681 \\
2014 & (73382 - 53269) = (-12013)^2 = 404532769 \\
2015 & (82121 - 53269) = (-28852)^2 = 832437904 \\
2016 & (94012 - 53269) = (-40743)^2 = 1659920049 \\
2017 & (109744 - 53269) = (-56475)^2 = 3189475625 \\
2018 & (128021 - 53269) = (-74752)^2 = 5587861504 \\
2019 & (156519 - 53269) = (-103550)^2 = 10722662500 \\
& \quad \quad \quad + \\
& \quad \quad \quad 3527057265 \\
& \quad \quad \quad = \frac{\quad}{21}
\end{aligned}$$

$$\text{varians} = \sqrt{1679551069}$$

$$\text{standart smp} = 40982$$

Örnek: Seçilen bir Standart Sapma ve Varians

$$\begin{aligned}
1999 & (1937 - 16232) = (-14295)^2 = 204347024 \\
2000 & (3058 - 16232) = (-13174)^2 = 173554276 \\
2001 & (3958 - 16232) = (-12274)^2 = 150651076 \\
2002 & (5504 - 16232) = (-10728)^2 = 115089984 \\
2003 & (6817 - 16232) = (-9415)^2 = 88642225 \\
2004 & (8632 - 16232) = (-7600)^2 = 5776000 \\
2005 & (11372 - 16232) = (-4860)^2 = 2369600 \\
2006 & (13953 - 16232) = (-2279)^2 = 5193841
\end{aligned}$$

$$\begin{aligned}
2007 & \quad (-16374 - 16232) = (-100)^2 = 20164 \\
2008 & \quad (-18880 - 16232) = (-65)^2 = 425104 \\
2009 & \quad (-41021 - 16232) = (-5211)^2 = 27156521 \\
2010 & \quad (-1713 - 16232) = (-7063)^2 = 9381969 \\
2011 & \quad (-14028 - 16232) = (-2204)^2 = 4857616 \\
2012 & \quad (-10400 - 16232) = (-828)^2 = 685584 \\
2013 & \quad (-18162 - 16232) = (-1930)^2 = 3724900 \\
2014 & \quad (-21368 - 16232) = (-5136)^2 = 26378696 \\
2015 & \quad (-22446 - 16232) = (-6210)^2 = 38613796 \\
2016 & \quad (-25744 - 16232) = (-9512)^2 = 90478144 \\
2017 & \quad (-30904 - 16232) = (-14672)^2 = 215268724 \\
2018 & \quad (-37713 - 16232) = (-20981)^2 = 440202361 \\
2019 & \quad (-44212 - 16232) = (-27980)^2 = 782880400
\end{aligned}$$

$$\begin{array}{r}
+ \\
2359128665
\end{array}$$

21

$$\text{Variance} = \sqrt{112339460}$$

$$\text{Standard dev} = 10599$$

Türkiye İstatistik Kurumu

Dış Ticaret İstatistikleri Veri Tabanı

Aşağıya göre dış ticaret

Rapor Tarihi: 07/07/2021

Yıl	Ay	İhracat Dolar
2009	1	13,179,257,405
	2	13,571,703,315
	3	15,461,804,039
	4	14,461,837,290
	5	15,960,378,423
	6	11,064,550,363
	7	15,127,653,693
	8	12,500,317,969
	9	14,406,713,985
	10	15,638,245,225
	11	15,456,182,867
	12	14,656,820,039
2020		Toplam=174,464,944,593
	1	13,831,010,291
	2	13,864,129,639
	3	12,591,692,686
	4	8,420,885,985
	5	9,414,647,819
	6	12,774,772,288
	7	14,128,823,151

İhracat Dolar

8 11, 737, 383, 417

9 15, 178, 070, 807

10 16, 422, 165, 186

11 15, 311, 398, 056

Toplam= 143, 624, 550, 325

2019 yılı ihracat rakamları, 6. ay - yıl arasında 12 ay süre
sabit eraslı enflasyon hesabı

$$6. ay = 11, 064, 550, 363$$

Ay

$$1. ay \quad \frac{13, 179, 257, 405}{11, 064, 550, 363} \cdot 100 \quad 119 - 100 = 9.89 \text{ artışı}$$

$$2. ay \quad \frac{13, 571, 703, 315}{11, 064, 550, 363} \cdot 100 \quad 112 - 100 = 9.22 \text{ artışı}$$

$$3. ay \quad \frac{15, 461, 804, 039}{11, 064, 550, 363} \cdot 100 \quad 139 - 100 = 39.39 \text{ artışı}$$

$$4. ay \quad \frac{14, 461, 837, 290}{11, 064, 550, 363} \cdot 100 \quad 130 - 100 = 30.00 \text{ artışı}$$

$$5. ay \quad \frac{15, 940, 378, 421}{11, 064, 550, 363} \cdot 100 \quad 144 - 100 = 44.00 \text{ artışı}$$

$$6. ay \quad \frac{11, 064, 550, 363}{11, 064, 550, 363} \cdot 100 \quad 100 - 100 = 0.00 \text{ artışı}$$

$$7. ay \quad \frac{15, 127, 657, 697}{11, 064, 550, 363} \cdot 100 \quad 136 - 100 = 36.00 \text{ artışı}$$

$$8. ay \quad \frac{12, 500, 317, 969}{11, 064, 550, 363} \cdot 100 \quad 112 - 100 = 12.00 \text{ artışı}$$

$$9. ay \quad \frac{14.406.913,985}{11.064.550,363} \cdot 100 = 130 - 100 = 30 \text{ artış}$$

$$10. ay \quad \frac{15.639.745,225}{11.064.550,363} \cdot 100 = 141 - 100 = 41 \text{ artış}$$

$$11. ay \quad \frac{15.456.182,947}{11.064.550,363} \cdot 100 = 139 - 100 = 39 \text{ artış}$$

$$12. ay \quad \frac{14.656.500,039}{11.064.550,363} \cdot 100 = 132 - 100 = 32 \text{ artış}$$

2020 yılı aylık ihracat rakamlarıyla değişen esashi endeksi hesaplanır

$$\text{Formül} \quad \frac{111-1}{11-1} \cdot 100$$

Aylar Rakamlar

1. ay	13.831.010,291
2. ay	13.864.129,639
3. ay	12.591.673,686
4. ay	8.420.885,985
5. ay	9.414.647,879
6. ay	12.729.772,288
7. ay	14.128.823,151
8. ay	11.737.293,417
9. ay	15.178.070,807
10. ay	16.422.445,186
11. ay	15.311.392,056

$$1. \text{ag} \quad \frac{13,831,010.291}{13,831,010.291} \cdot 100 = 100 - 100 = 0$$

$$2. \text{ag} \quad \frac{13,854,139,639}{13,831,010,291} \cdot 100 = 100.93 = 9.93 \text{ ante \%}$$

$$3. \text{ag} \quad \frac{12,591,673,686}{13,864,173,639} \cdot 100 = 90.82 - 100 = -9.18 \text{ ante \%}$$

$$4. \text{ag} \quad \frac{8,420,885,985}{12,591,673,686} \cdot 100 = 66.87 - 100 = -33.13 \text{ ante \%}$$

$$5. \text{ag} \quad \frac{9,414,647,819}{8,420,885,985} \cdot 100 = 111.80 - 100 = 11.80 \text{ ante \%}$$

$$6. \text{ag} \quad \frac{12,714,372,292}{9,414,647,819} \cdot 100 = 135.15 - 100 = 35.15 \text{ ante \%}$$

$$7. \text{ag} \quad \frac{14,128,827,151}{12,714,372,292} \cdot 100 = 111.03 - 100 = 11.03 \text{ ante \%}$$

$$8. \text{ag} \quad \frac{11,737,393,417}{14,128,827,151} \cdot 100 = 83.07 - 100 = -16.93 \text{ ante \%}$$

$$9. \text{ag} \quad \frac{15,178,070,807}{11,737,393,417} \cdot 100 = 129.31 - 100 = 29.31 \text{ ante \%}$$

$$10. \text{ag} \quad \frac{16,422,145,180}{15,178,070,807} \cdot 100 = 108.19 - 100 = 8.19 \text{ ante \%}$$

$$11. \text{ag} \quad \frac{15,311,798,056}{16,422,145,186} \cdot 100 = 91.93 - 100 = -8.07 \text{ ante \%}$$