

The 9th International Symposium On Important Problems of the Environmental Protection and Human Health

Tashkent Medical Academy – Korea University



November 16 2022

Tashkent Medical Academy, Tashkent

Vehicle and atmospheric air in Uzbekistan

Prof. Sherkuziyeva Guzal Fakhritdinovna

Prof. Sadullayeva Hosiyat Abdurakhmanovna

Department of Environmental Hygiene, Tashkent Medical Academy



**TASHKENT MEDICAL ACADEMY
DEPARTMENT OF ENVIRONMENTAL HYGIENE**

THEME: MOTOR TRANSPORT AND ATMOSPHERE



**Ph.D., dosent G.F. Sherkozieva
Ph.D. dosent Kha.A. Sadullaeva**

Tashkent-2022



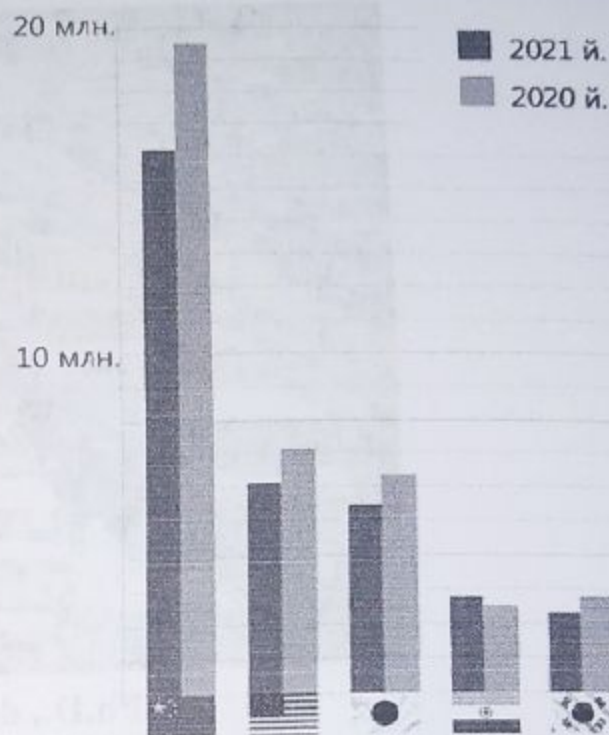
Аҳоли жон бошига тўғри келадиган автомобиллар сони бўйича мамлакатлар рейтинги

(1000 нафар аҳолига нисбатан)

Сан-Марино	1263
Монако	899
Лихтенштейн	773
Исландия	717
Австралия	717
Янги Зеландия	712
Люксембург	662
Италия	625
Германия	555
Австрия	550

Хитой автомобил ишлаб чиқаришда дунёда биринчи

(Январь-Октябрь)



Fastmb

VERITY

Дизайн: И.Абдужабборов

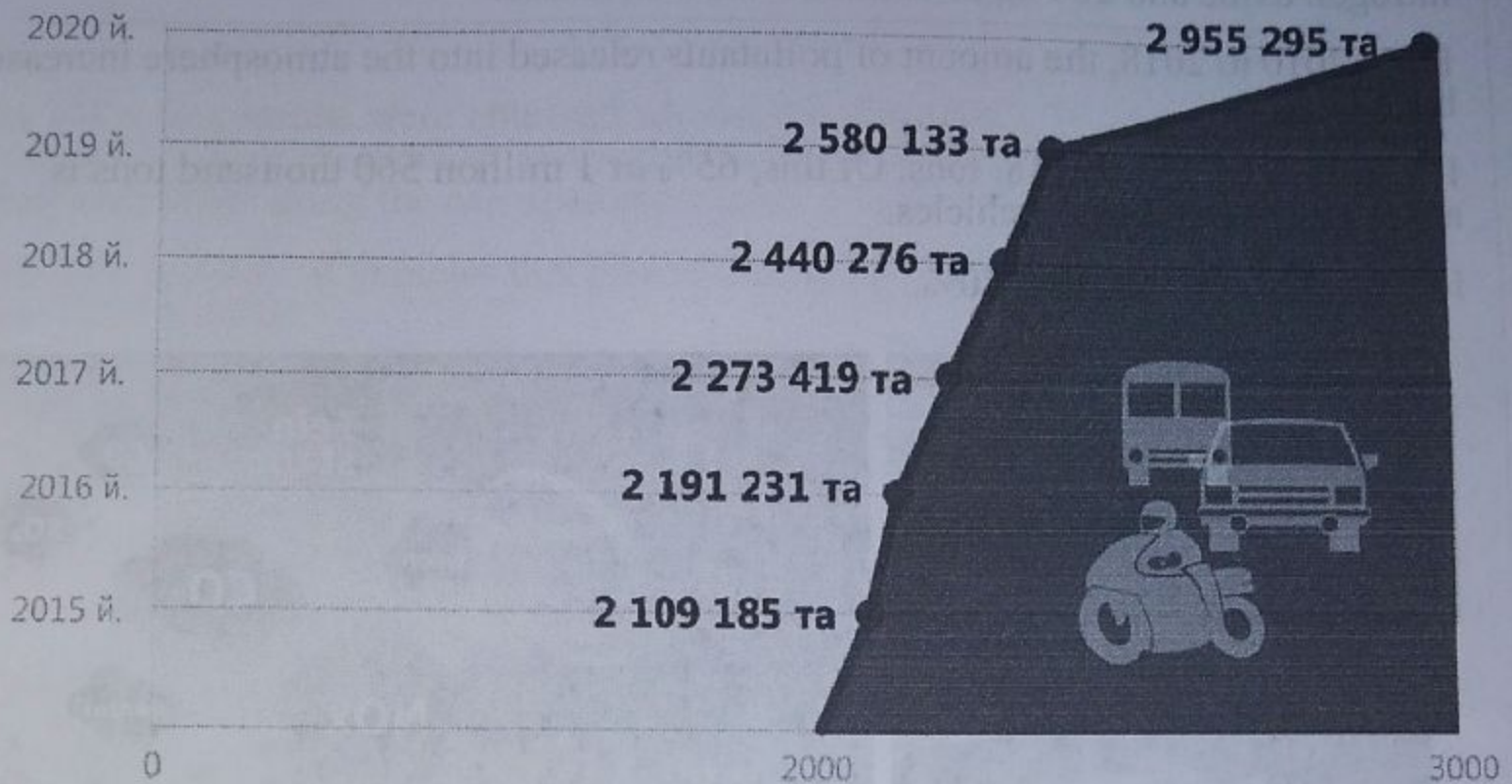
Ўзбекистонда энг кўп енгил автомобиллар Тошкент шаҳрида

Тошкент	467 176
Самарқанд	323 586
Фарғона	276 558
Тошкент в.	262 741
Қашқадарё	223 733
Андижон	192 944
Хоразм	187 457
Бухоро	180 478
Наманган	180 367
Сурхондарё	150 574
Қорақалпоғистон Р.	113 140
Навоий	75 039
Жиззах	72 530
Сирдарё	60 803

Манба: Давлат статистика қўмитаси.
Дизайн: И.Абдужабборов



Сўнгги 5 йилда аҳолига тегишли бўлган жами автотранспорт воситалари сони



Манба: Давлат статистика қўмитаси. Дизайн: И.Абдужабборов



Сўнгги 5 йилда шахсий автомобиллар сони ўсиши

According to the information provided by the State Statistics Center: in 2015 - 2,109,185;

In 2016 - 2 191 231 (3,8%);

In 2017 - 2 273 419 (3,7%);

In 2018 - 2 440 276 (7,3%);

In 2019 - 2 580 133 (5,7%).

On average, there are 84 cars per 1000 people in Uzbekistan, compared to other countries, there are 910 cars per 1000 people in the USA, 740 cars per 1000 people in Australia, 625 cars in Italy, 591 cars in Japan, 369 cars in Russia, and 250 cars in Kazakhstan. In 10 years, the number of cars in our republic reached almost 3 million. As of January 1, 2021, the total number of passenger cars owned by individuals in our republic is 2,767,126, with an average of 80 passenger cars per 1,000 inhabitants.



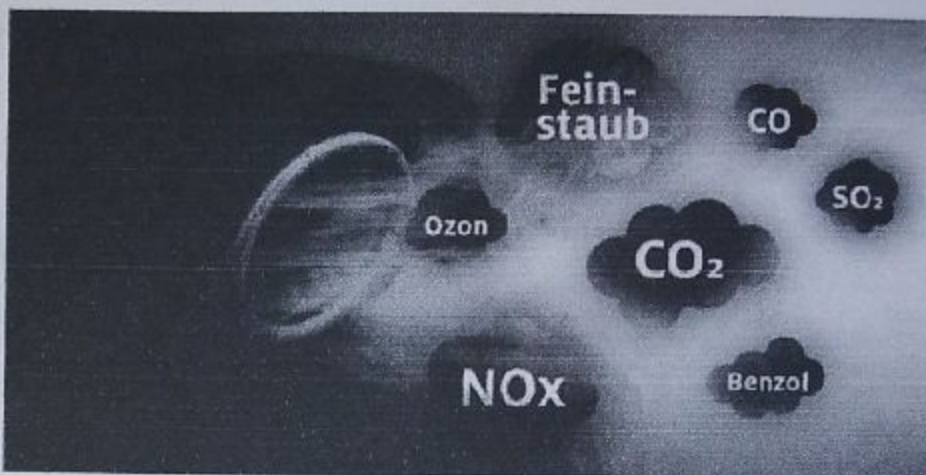
The amount of waste that 1 car emits into the environment in a year

It takes 4 tons of oxygen from the air and emits 800 kg of carbon dioxide, 40 kg of nitrogen oxide and 200 kg of various toxic substances.

From 2010 to 2018, the amount of pollutants released into the atmosphere increased by 1.3 times.

It is 2,442 million in 2018. tons. Of this, 65% or 1 million 560 thousand tons is accounted for by motor vehicles.

In Tashkent, this figure is 80%.



Car traffic in Tashkent city

Currently, there are more than 65 crossroads in the city of Tashkent (more than 30 according to the indicator of 2010) with traffic from 8:00 to 9:00

lunch time is from 12.00 to 13.00

late hours from 17.00 to 19.00 10-15 sometimes up to 20 minutes traffic jams are observed





"Navoi" street

- ✓ The following results were obtained when estimating the amount of soot in car exhaust gases of Tashkent city Shaikhontokhur using the calculation method:
- ✓ The total number of vehicles that passed during one hour was -7224 (100%)
- ✓ number of light vehicles - 6168 (85.3%),
- ✓ the number of freight vehicles -248 (3.4%),
- ✓ number of buses-712 (9.8%),
- ✓ number of special vehicles-56 (0.7%)
- ✓ other vehicles -20 (0.5%)



"Mirzo Ulugbek and Dormon" crossroad

- The total number of vehicles that passed in one hour was -8664 (100%)
- number of light vehicles - 8248 (95.1%),
 - the number of freight vehicles -160 (1.8%),
 - number of buses-192 (2.2%),
 - number of special vehicles-40 (1.4%)
 - other vehicles made up -24 (0.5%).





"Korasaroy" crossroad

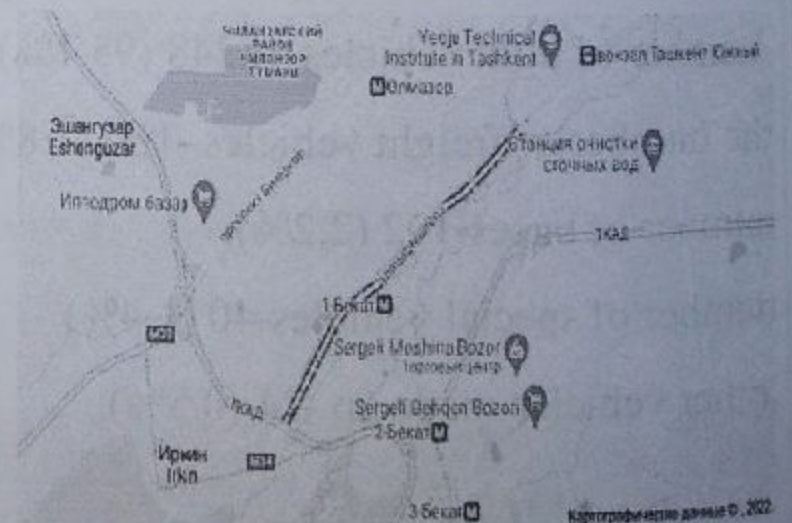
- The total number of motor vehicles that passed in one hour was -5894 (100%) of them
- number of light vehicles - 5516 (93.5%),
- number of freight vehicles -119 (2.0%),
- number of buses-175 (2.9%),
- number of special vehicles-84 (1.7%)
- other vehicles made up -20 (0.5%).



"Choshtepa" street

The total number of vehicles that passed during one hour was -4212 (100%)

- number of light vehicles - 3948 (93.7%),
- the number of freight vehicles -96 (2.2%),
- number of buses-120 (2.8%),
- number of special vehicles-30 (0.7%)
- other vehicles -20 (0.5%)





"Beruni" crossroad

The total number of vehicles that passed in one hour was -4212 (100%).

number of light vehicles - 3948 (93.7%),

the number of freight vehicles -96 (2.2%),

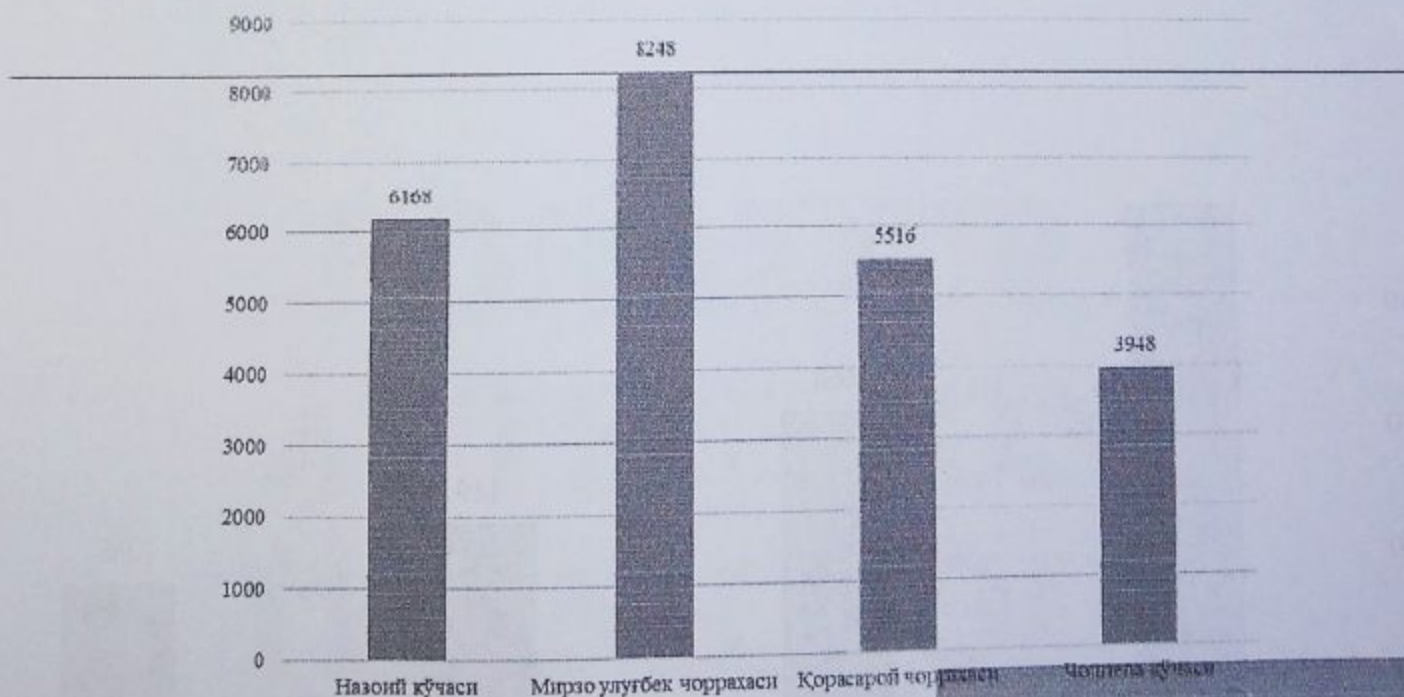
number of buses-120 (2.8%),

number of special vehicles-30 (0.7%)

other vehicles made up -20 (0.5%).

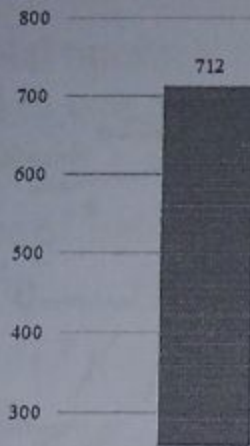


The number of cars on the observation streets (in 1 hour)

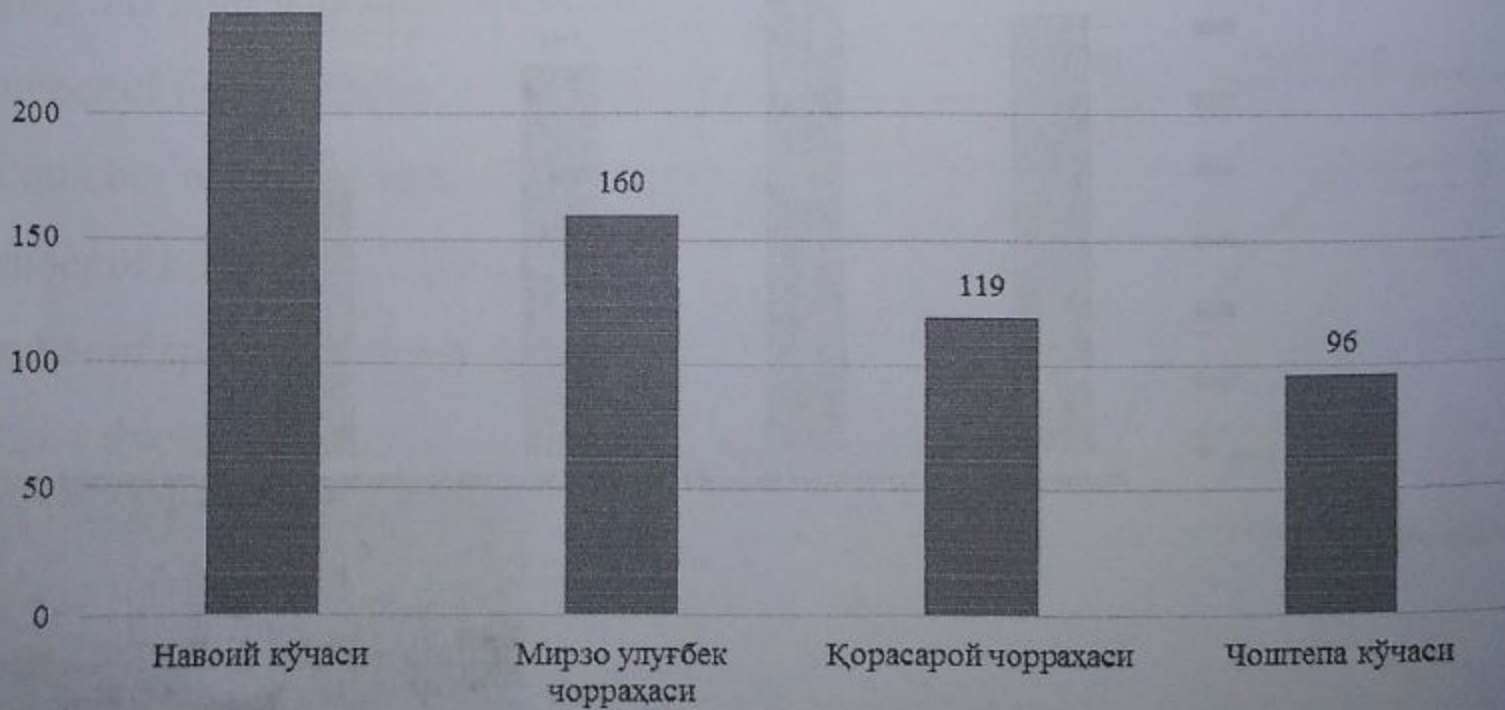




Number of buses on monitoring streets (in 1 hour)

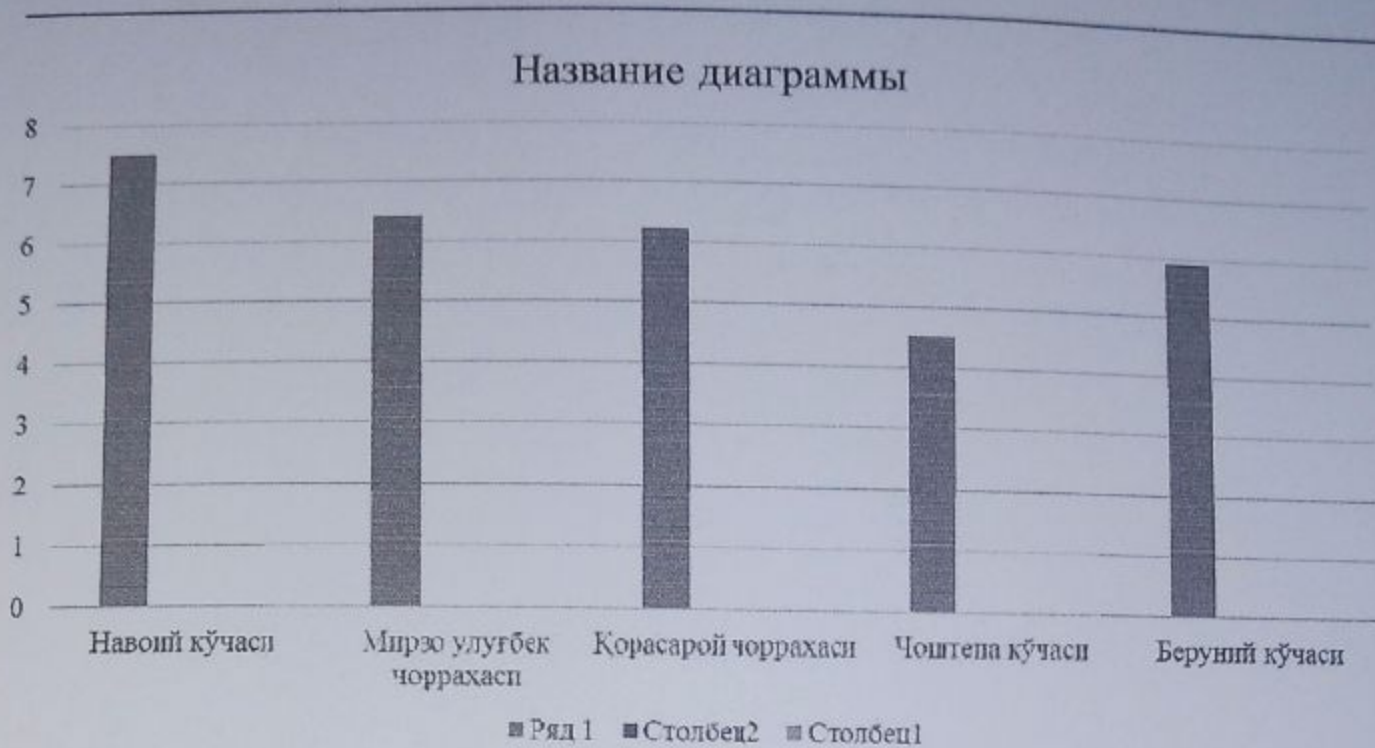


The number of cars on the observation streets (in 1 hour)





The amount of carbon dioxide determined by the accounting method (mg/m³)



**FOR YOUR
ATTENTION
THANK YOU!**