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Formation of indicators of commercial real estate price statistics based on data from various sources

Introduction: Currently, indicators characterizing the change in prices in the real estate market are of increasing interest. Often, declines in real estate prices precede an economic crisis, in this regard, it is important to monitor prices in the real estate market to identify potential risks to financial stability. The need to build and disseminate comparable data on real estate prices is set as one of the current tasks in the discussions of international experts on price statistics.

Building a commercial real estate price index is a more difficult task than compiling housing price indices. This is due to the greater heterogeneity of commercial real estate compared to residential and a small number of transactions in the commercial real estate market. In addition, despite the existence of a guide to real estate price indices, there is no agreed international methodology for constructing indicators.

Theoretically, it is believed that data on actual transactions are the best for constructing a commercial real estate price index [1]. In international practice (Germany, Denmark, the Netherlands, Slovenia and other countries), this data source is the most used. However, it often happens that the data may not be sufficient to calculate the indicators, besides, administrative data are not always complete and of high quality (understated transaction prices, zero prices, errors and inaccuracies in the characteristics of real estate).

An alternative source of data can be the offer prices on real estate platforms and the data of statistical observations.

Offer prices attract index compilers by their accessibility, they contain detailed information about real estate objects and can be obtained faster than transaction data, which allows the index to be calculated in a timely manner. However, the offer prices are usually higher than the actual transaction prices.

The data obtained as a result of statistical observations, despite their timeliness and coverage, entail certain disadvantages: the burden on respondents and specialists of territorial statistical divisions, heterogeneity of types of commercial real estate.

To compile the indicators, available in the country data source is selected, taking into account the specifics of the real estate market, the advantages and disadvantages of the available data.

Commercial real estate rental prices: current survey and alternative data sources: Currently, the system of indicators of commercial real estate price statistics in Kazakhstan is represented only by indices of commercial real estate rental prices, formed according to the results of national statistical observation in the form "Report on commercial real estate rental prices" on a quarterly basis. Information on prices is provided by landlords according to lease agreements for a wide list of types of real estate:

• Offices (class A, B, C, D);

- Retail premises (shops, boutiques, pharmacies, kiosks);
- Public catering facilities (restaurants, cafes, canteens);
- Consumer service points (dry cleaners, photo salons, hairdressers, gyms, etc.);
- Warehouses (class A, B, C, D);
- Production facilities (industrial bases, workshops, service stations, car washes);
- Parking lots (multi-level, aboveground, underground);
- Other types (currency exchange offices, premises for bank branches).

Based on the results of the observation, commercial real estate rental price indices are formed. Until 2015, in addition to price indices, average prices by region were also formed, but their formation was canceled due to the heterogeneity of the sample. The level of average prices was influenced by the presence in the sample of a significant number of respondents who rent out objects located in the districts of the regions. As a rule, prices in districts can be several times lower than in regional centers. Another factor in the heterogeneity of the sample was that respondents themselves determine which class their real estate object belongs to (office or warehouse). Thus, for example, offices with a different range of prices can get into the group of offices of the highest class A, which does not allow for a real comparison of prices both between regions and between real estate classes within the same region.

The priority directions of the development of price statistics in Kazakhstan are the expansion of indicators on prices for commercial real estate, as well as the use of alternative sources [2]. In this regard, the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan (hereinafter referred to as the Bureau) has studied an alternative method of collecting prices – parsing sites with ads for rental and sale of commercial real estate. This method allows you to obtain a large amount of data in a short time and calculate representative average prices for commercial real estate, reflecting the situation in the market of the regions of the republic. Compared to the current source of price information, the parsing data of the sites represent the prices of offers.

Based on the structure and content of the sites, the main parameters for data collection are selected: type of real estate, description, total area, year of construction, other characteristics (ceiling height, Internet availability, security, etc.), price per square meter. The observation covers cities of regional and republican significance, the capital.

According to available data from sites, commercial real estate is divided into the following types:

1) offices;

2) shops and boutiques;

- 3) catering establishments;
- 4) beauty salons;
- 5) car services and car washes;
- 6) warehouses;

7) premises of free appointment.

After the breakdown into strata and the procedure for removing extreme values, the average prices are calculated. At the same time, to calculate a representative average price

for the city, a condition: the number of prices in the reporting quarter should be at least three, was adopted.

According to the parsing data, experimental calculations of average prices for the 1-3 quarter of 2023 were carried out.

	in tenge per sq.m											
		Offices		Sh	ops and boutiqu	ies	Premis	es of free appoi	ntment			
	2023 1 quarter	2023 2 quarter	2023 3 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter			
Astana	5 030	5 372	5 106	5 320	5 538	5 440	3 320	5 104	4 946			
Almaty	7 150	5 903	6 1 3 0	6 963	5 629	6 181	3 933	5 117	5 155			
Shymkent	3 050	3 750	3 164	4 117	3 509	3 558	5 486	3 107	2 812			
Aktau	3 521	3 095	3 155	3 279	3 422	3 431	5 963	3 2 3 1	3 096			
Aktobe	2 918	3 342	3 636	3 813	3 660	3 842	2 614	3 245	3 139			
Atyrau	3 601	4 144	4 045	4 609	3 762	3 989	3 273	3 454	3 554			
Zhezkazgan	4 694	5 087	4 150	3 737	2 365	3 397	2 889		3 344			
Kokshetau	3 051	3 201	3 407	3 443	3 440	3 563	3 672	3 267	2 623			
Karagandy	3 214	3 861	4 084	4 115	4 361	4 131	3 104	3 530	3 502			
Konaev	3 523	2 745		4 175	4 062	6 256	3 1 3 4	2 751				
Kostanay	1 950	2 890	3 4 3 6	4 889	3 551	4 095	3 199	2 726	3 588			
Kyzylorda	2 459	2 635	2 4 3 1	2 252	3 575	3 031	3 192	2 790	2 511			
Uralsk Ust-	2 612	2 888	4 077	4 637	4 802	4 271	2 853	3 383	3 103			
Kamenogorsk	2 331	3 466	3 577	4 024	3 722	3 937	3 1 1 1	3 294	2 684			
Pavlodar	2 739	3 827	3 859	4 317	3 083	3 735	3 272	2 775	2 626			
Petropavlovsk	3 728	3 915	2 1 2 8		3 450		3 0 2 6	2 290	2 373			
Semey	3 957	3 859	3 302	4 521	4 346	3 179	2 523	3 520	2 980			
Taldykorgan	2 479	3 203	3 158	3 511	2 488	4 414	1 552	2 4 3 0	2 715			
Taraz	2 915	3 172	3 263	2 737	3 040	3 178	3 1 1 0	2 893	2 169			
Turkistan	2 843	2 596	3 674	1 703	2 869	3 005	2 477	2 468	2 913			

Average prices for rent of commercial real estate

Continuation

Table 1

				ľ	Number of price	s			
		offices		sh	ops and boutiqu	ies	premis	es of free appoi	ntment
	2023 1 quarter	2023 2 quarter	2023 3 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter
Astana	572	428	402	239	321	378	27	692	618
Almaty	1 312	687	660	355	552	410	42	750	534
Shymkent	134	72	83	80	84	75	1116	114	89
Aktau	78	34	45	32	41	41	1179	80	58
Aktobe	59	44	38	41	32	38	152	41	48
Atyrau	88	77	51	37	54	29	113	105	62
Zhezkazgan	5	3	5	7	4	4	98	2	6
Kokshetau	34	14	7	10	8	8	104	17	9
Karagandy	122	43	31	42	42	32	5	85	50
Konaev	11	4	1	12	8	3	42	6	1
Kostanay	47	21	17	16	20	15	124	26	21
Kyzylorda	12	8	18	10	10	15	11	22	22
Uralsk Ust-	21	10	11	9	13	15	35	33	18
Kamenogorsk	61	34	11	34	39	15	38	46	13
Pavlodar	56	27	16	30	25	11	49	36	10
Petropavlovsk	10	8	4	1	5	2	57	6	6
Semey	26	16	17	13	25	9	56	26	13
Taldykorgan	33	7	15	5	6	5	10	21	6
Taraz	36	11	11	30	33	19	32	38	21
Turkistan	8	3	4	3	3	5	26	10	5

Average prices for rent of commercial real estate in 3 quarter of 2023*

Catering establishments Car services and car washes Beauty salons Warehouses	Warehouses	
average price number of prices average price number of prices average price number of prices average price number of prices		
Astana 5 748 229 3 121 31 5 440 297 3 460	195	
Almaty 5 919 221 3 534 53 6 179 281 3 663	283	

	Catering est	ablishments	Car services a	nd car washes	Beauty	salons	Wareh	iouses
	average price	number of prices	average price	number of prices	average price	number of prices	average price	number of prices
Shymkent	3 430	31	2 077	13	3 460	38	1 929	42
Aktau	4 252	25	1 858	8	3 214	40	2 002	18
Aktobe	3 817	15	2 664	7	3 883	21	2 097	16
Atyrau	3 394	15	2 165	8	3 981	18	2 845	26
Zhezkazgan	3 224	3			4 575	4		2
Kokshetau	3 065	5	3 119	4	3 142	6	1 751	9
Karagandy	4 462	16	1 695	8	4 733	29	2 540	27
Konaev		2			4 707	4		
Kostanay	4 966	3	1 627	3	4 431	7	1 588	10
Kyzylorda	2 872	7	2 019	6	2 884	12	2 196	14
Uralsk Ust-		2	2 491	5	4 338	4	2 248	13
Kamenogorsk	2 993	7	2 382	8	4 633	8	1 762	9
Pavlodar	4 533	3		2	4 275	5	2 429	9
Petropavlovsk		1		2		2	1 979	5
Semey		2		2	3 746	9	2 071	6
Taldykorgan	2 367	3	1 979	3	2 408	3	1 817	3
Taraz	3 382	5	2 557	4	3 425	10	1 885	5
Turkistan	3 031	5	2 339	3	2 378	4	2 520	3

*The parsing of prices for catering establishments, car services and car washes, beauty salons, warehouses has been conducted since the 3rd quarter of 2023, due to changes in the structure of real estate sites.

Compilation of indicators for the sale prices of commercial real estate: In order to compile indicators for the sale of commercial real estate, the Bureau studied information from two sources: administrative data on completed transactions of purchase and sale of commercial real estate from the State Database "Real Estate Register" (hereinafter - SD RER) and data from real estate advertisements obtained by parsing sites.

The main characteristics of data sources are coverage, data quality and timeliness. *Coverage*. Information from these sources allows you to generate quarterly average prices for the sale of commercial real estate in cities of regional and republican significance, the capital. In some cities, there are cases when the number of actually completed transactions in one quarter is less than three, which is not enough to calculate representative average prices.

	Data from SD RER	Data from parsing
Nature of the data Structure of data	 prices of actually completed transactions 1) offices; 2) stores; 3) hotels and restaurants; 4) warehouses; 5) industrial buildings; 6) garage buildings 	offer prices 1) offices; 2) shops and boutiques; 3) catering establishments; 4) beauty salons; 5) car services and car washes; 6) warehouses; 7) premises of free appointment

Data sourses for the sale prices of commercial real estate

Data quality. The offer prices obtained by parsing will always represent an overestimate, since there is a bargaining between the seller and the buyer. The use of actual transaction prices is preferable, since it reflects the real situation on the commercial real estate market, but the quality of administrative data of the SD RER still requires improvement. As a result of the calculations (shown below), it is noticeable that the database contains a significant number of transactions at low prices. For example, the average price of eight transactions for the purchase and sale of stores in Taraz in the 2nd quarter of 2023 amounted to only 29,451 tenge per 1 sq.m. If you go deeper into the details of the calculation, the price range between transactions ranged from 2,896 tenge to

97,087 tenge per sq.m. At the same time, it should be taken into account that in order to exclude shifts in the values of the indicator, it was provided for cutting off duplicates, zero data, extreme price values (10% of the highest and lowest prices for each type of real estate in each region were cut off).

Timeliness. According to the two data sources it is planned to compile indicators on a quarterly basis. The timeliness of receiving data is ensured, but there are always risks that cannot be providen in advance.

The main risk for the timely receipt of parsing data is a change in the structure of the site or the blocking of the site by its owner. In this case, there is a risk of extending the period for the compilation of indicators until the problem is solved by the developer of the parsing tool.

Administrative data are submitted to the Bureau in a timely manner, but possible risks are the work of both the owner of the SD RER and the Bureau. For example, in the 2nd quarter of this year, work by transfer the data of the SD RER to the Unified State Cadastre of Real Estate, in the 3rd quarter – the technical work on residential real estate by Bureau. This led to the fact that in the total volume received for processing, there is an incomplete amount of data for 2-3 quarters of 2023.

Based on the administrative data of the SD RER, the calculation of average prices on sales of commercial real estate according to the previously mentioned classification for 2022 and 1-3 quarter of 2023 was carried out.

Table 4

			Average	price, in tenge	per sq.m			Number	of prices
	2022 1 quarter	2022 2 quarter	2022 3 quarter	2022 4 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter	2022	2023 1-3 quarters
Astana	92 292	107 698	220 962		163 603	238 741	179 557	20	19
Almaty	86 047	170 392	105 892	106 992	118 557	119 836	123 462	32	21
Shymkent	109 136	103 571	143 821	133 002	154 727	219 923	191 105	71	45
Aktau		185 540	62 156				147 705	11	5
Aktobe	56 887	71 761	39 257	115 779	129 833	164 115	71 691	38	17
Atyrau	88 051	157 830	130 700	142 854	222 552		129 318	30	12
Zhezkazgan		70 895					148 565	10	5
Kokshetau			150 330					10	2
Karagandy			164 770					9	1
Kyzylorda							175 269		4
Uralsk Ust-	180 768		170 758		282 276		149 954	17	9
Kamenogorsk	172 152	71 992		69 097	176 999		101 511	17	14
Pavlodar		114 500	112 098		216 378			15	6
Petropavlovsk	155 405	288 500	153 829	218 691	178 520	199 426	220 447	24	15
Semey		100 144	186 376	85 033	79 044	158 624	67 263	20	13
Taldykorgan		153 685	103 258		28 962	72 349	50 801	11	18
Taraz	72 663	61 783	89 177	211 979	116 718	29 451	94 634	34	20
Turkistan		288 615						7	3

Average prices for sales of stores according to data from SD RER

Average prices for sales of offices according to data from SD RER

Average price, in tenge per sq.m Number of prices 2022 2023 2023 2022 2022 2023 2023 2022 2022 quarter 2 quarter 3 quarter 4 quarter 1 quarter 2 quarter 3 quarter -3 quarters 63 617 91 273 220 968 270 642 275 987 63 558 197 933 33 29 Astana 184 387 51 171 828 145 380 178 182 183 209 238 407 133 247 24 Almaty 85 695 79 684 121 677 134 926 81 750 106 517 157 538 49 25 Shymkent 9 9 Aktau 44 679 30 304 35 751 87 145 91 046 10 12 Aktobe 142 736 157 021 53 877 47 007 161 667 $25\,008$ 27 15 Atyrau 32 316 93 316 Kokshetau 52 090 229 834 9 5

			Average	price, in tenge	per sq.m			Number	of prices
	2022	2022	2022	2022	2023	2023	2023	2022	2023
	1 quarter	2 quarter	3 quarter	4 quarter	1 quarter	2 quarter	3 quarter	2022	1-3 quarters
Kostanay			79 204		150 530		45 090	15	8
Kyzylorda							97 315		3
Ust- Kamenogorsk	54 824	46 106					179 229	11	10
Petropavlovsk	121 156						324 301	6	9
Semey			115 959		153 755	78 972	41 437	9	14
Taraz			332 803	79 792				10	4
Turkistan							197 933		29

Table 6

Average prices for sales of hotels and restaurants according to data from SD RER

				Number	of prices				
	2022	2022	2022	2022	2023	2023	2023	2022	2023
	1 quarter	2 quarter	3 quarter	4 quarter	1 quarter	2 quarter	3 quarter		1-3 quarters
Astana					272 532	326 549		9	14
Almaty		133 426	84 008	73 967	93 795	145 574	128 163	37	23
Shymkent	102 307	129 591	161 533	71 433	68 579	102 305		39	11
Aktobe	59 463							6	4
Kokshetau					104 559			5	6
Kyzylorda		103 427						8	4
Uralsk		84 949					134 310	10	11
Semey			51 573					5	5
Taraz		71 205						8	2

Table 7

Average prices for sales of warehouses according to data from SD RER

			Average	price, in tenge	per sq.m			Number of prices	
	2022	2022	2022	2022	2023	2023	2023	2022	2023
	1 quarter	2 quarter	3 quarter	4 quarter	1 quarter	2 quarter	3 quarter	2022	1-3 quarters
Astana	208 355	66 696	94 112		70 020	53 584	147 175	19	18
Almaty	265 050	50 037	160 039		129 810	66 059	95 950	29	29
Shymkent	66 178	77 679		47 449			122 621	19	5
Aktau		56 422						8	3
Aktobe			54 245		37 714		160 590	15	17
Atyrau		51 181		123 576			61 848	10	3
Kokshetau							154 491		4
Karagandy	38 341				62 452	13 931	18 432	10	13
Kostanay		24 522	60 502	143 878	74 704	32 611	32 313	25	13
Kyzylorda		28 385		259 289	36 618		69 242	10	31
Ust-									_
Kamenogorsk			13 717					10	5
Pavlodar		32 409	152 989		111 944			9	5
Petropavlovsk							26 920	7	5
Semey		88 743	122 210	82 265	129 707	46 854	31 723	17	10
Taraz					53 576			7	7

Table 8

Average prices for sales of industrial buildings according to data from SD RER

			Average	price, in tenge	per sq.m			Number	of prices
	2022 1 quarter	2022 2 quarter	2022 3 quarter	2022 4 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter	2022	2023 1-3 quarters
Astana	76 942	62 584	85 068	81 715		150 909	96 092	21	9
Almaty	109 239	37 552	75 710		148 774	27 698	82 949	29	24
Shymkent	90 744	32 295	17 757		46 165		114 468	17	8
Aktobe							131 588		5
Atyrau			8 070	42 826		146 815		11	6
Karagandy	68 632					81 007	189 156	8	8
Ust- Kamenogorsk					46 092		134 832	7	12
Pavlodar	162 411				112 635		57 611	11	10
Petropavlovsk		13 549					62 070	8	5
Taraz	79 171	62 831						12	4

Average prices for sales of garage buildings according to data from SD RER

				Number of prices					
	2022 1 quarter	2022 2 quarter	2022 3 quarter	2022 4 quarter	2023 1 quarter	2023 2 quarter	2023 3 quarter	2022	2023 1-3 quarters
Astana				120 779	121 712	91 466	105 610	12	16
Almaty	99 158	109 288	92 022	162 113	76 667		54 906	32	15
Shymkent	61 772	67 396	58 109	191 270	96 272	219 260	42 739	39	38
Karagandy							57 238		6
Taldykorgan							45 278		3

Given the heterogeneity of the types of real estate in each quarter, average prices may differ significantly from quarter to quarter. For example, the average price on sale of stores in Almaty in the 1st quarter of 2022 amounted to 86,047 tenge per 1 sq.m, and in the 2nd quarter it became almost 2 times higher (170,392 tenge). The value of the average price depends on the transactions for which real estate objects were made in the reporting period, as well as on factors such as location in the city, availability of equipment, year of construction, condition, repair, urgency of sale, etc. Accordingly, price spikes are inevitable.

Since commercial real estate is more often rented than bought, the number of transactions per year is not so large, in large cities their number is 20-40 per year, in some cases reaches 50 or 70. In some cities, their number is less than three, which is not enough to calculate average prices.

Based on data from parsing, an experimental calculation of data for the 1-3 quarter of 2023 was also carried out.

Table 10

in tenge per sq.m

Continuation

Average prices for sales of commercial real estate according to data from parsing

Offices Shops and boutiques Premises of free appointment 2023 2023 2023 2023 2023 2023 2023 2023 2023 1 quarter 2 quarter 3 quarter 1 quarter 2 quarter 3 quarter 1 quarter 2 quarter 3 quarter Astana 515 210 410 605 356 234 414 942 342 880 371 143 892 359 330 317 Almaty 757 076 361 810 397 709 513 386 295 372 339 536 700 144 284 051 337 236 Shymkent 514 982 343 742 367 516 313 773 317 304 303 102 416 427 298 940 324 971 Aktau 268 307 259 865 227 824 228 641 240 931 224 355 211 440 181 373 276 996 Aktobe 349 228 308 887 317 538 300 138 319 420 279 641 249 943 266 780 209 150 445 629 329 693 282 578 245 342 305 787 279 884 308 554 312 169 216 878 Atyrau Zhezkazgan 417 458 308 809 346 026 308 818 388 569 304 865 301 650 312 630 Kokshetau 190 984 331 501 286 810 211 130 275 831 261 389 258 406 254 542 325 416 461 534 303 509 297 222 210 703 278 238 275 699 251 470 278 451 287 032 Karagandy Konaev 290 467 403 472 302 745 324 672 197 934 220 003 268 072 336 751 290 918 Kostanay 561 244 282 902 280 323 283 569 355 762 294 697 212 782 271 963 Kyzylorda 310 794 266 562 291 339 350 921 300 261 265 835 230 003 239 295 267 380 Uralsk 307 371 319 682 294 434 315 705 297 992 295 379 258 427 262 530 Ust-423 599 358 928 339 517 282 017 335 039 288 741 399 182 219 369 253 622 Kamenogorsk 333 741 393 225 249 709 166 258 291 570 267 613 329 739 244 483 229 566 Pavlodar 521 485 283 129 377 214 369 524 363 364 361 767 390 516 269 904 304 829 Petropavlovsk Semey 316 098 301 131 347 133 290 191 287 594 287 244 327 447 270 128 316 603 394 257 Taldykorgan 495 359 418 208 321 152 301 637 349 348 373 715 271 507 244 376 366 585 365 228 321 226 234 749 303 958 289 301 243 264 244 802 378 895 Taraz 202 062 271 067 200 074 241 439 259 727 291 256 250 789 Turkistan 245 137 305 739

				1	Number of price	s			
		offices		sh	ops and boutiqu	les	premis	ses of free appoi	ntment
	2023	2023	2023	2023	2023	2023	2023	2023	2023
	1 quarter	2 quarter	3 quarter	1 quarter	2 quarter	3 quarter	1 quarter	2 quarter	3 quarter
Astana	229	359	431	336	416	362	1 272	652	
Almaty	351	437	494	575	597	392	802	486	378
Shymkent	27	40	62	132	170	76	63	88	280
Aktau	30	60	59	99	135	70	159	125	49
Aktobe	44	57	60	124	114	65	90	67	56
Atyrau	27	50	41	53	79	42	68	66	45
Zhezkazgan		3	7	21	24	13	7	17	28
Kokshetau	15	27	17	42	45	14	32	29	4
Karagandy	12	31	33	65	98	34	71	64	18
Konaev	1	6	7	13	16	6	7	9	27
Kostanay	4	28	36	59	85	51	22	35	1
Kyzylorda	5	18	16	41	59	20	32	33	26
Uralsk	9	24	19	38	67	28	31	37	23
Ust-									
Kamenogorsk	7	21	23	116	139	52	30	37	24
Pavlodar	14	20	19	76	91	31	19	23	23

	Number of prices								
	offices			sh	ops and boutiqu	es	premises of free appointment		
	2023	2023	2023	2023	2023	2023	2023	2023	2023
	1 quarter	2 quarter	3 quarter	1 quarter	2 quarter	3 quarter	1 quarter	2 quarter	3 quarter
Petropavlovsk	7	7	21	22	37	11	11	18	14
Semey	13	17	8	85	82	21	27	28	8
Taldykorgan	15	19	18	55	53	32	15	26	15
Taraz	7	24	19	100	130	55	17	34	7
Turkistan	3	5	7	3	7	12	9	12	18

Average prices for sale of commercial real estate

Table 11

in tenge per sq.m

	Catering establishments		Car services and car washes		Beauty salons		Warehouses	
	average price	number of prices	average price	number of prices	average price	number of prices	average price	number of prices
Astana	442 623	284	292 037	57	375 739	324	247 081	175
Almaty	416 505	312	308 764	82	369 423	334	281 108	181
Shymkent	368 964	45	225 975	21	391 241	43	217 705	31
Aktau	229 203	31	174 170	4	221 274	53	169 044	39
Aktobe	255 365	39	244 481	14	350 969	42	175 936	24
Atyrau	300 181	17	208 053	11	337 356	25	207 218	24
Zhezkazgan	330 117	4		1	247 422	4		2
Kokshetau	278 640	11	185 518	5	312 877	12	212 852	9
Karagandy	296 812	34	132 418	13	320 804	24	165 645	16
Konaev		2		1	305 976	3	293 010	3
Kostanay	379 848	21	201 659	13	338 115	25	259 178	18
Kyzylorda	291 965	9	249 889	6	363 063	10	181 137	10
Uralsk Ust-	299 885	19	340 873	6	392 431	16	246 554	9
Kamenogorsk	317 502	20	149 172	5	459 978	19	140 350	6
Pavlodar	315 337	15	349 024	4	329 746	14	192 392	9
Petropavlovsk	471 883	9	306 150	5	378 385	15	192 241	4
Semey	303 734	5		2	428 663	9	198 553	5
Taldykorgan	288 880	14	203 091	4	411 472	9	255 006	6
Taraz	326 828	25	245 909	8	389 039	21	254 024	11
Turkistan	259 314	5	149 714	3	164 686	4	141 048	5

*The parsing of prices for catering establishments, car services and car washes, beauty salons, warehouses has been conducted since the 3rd quarter of 2023, due to changes in the structure of real estate sites.

Conclusions and directions for future work: For the rent of commercial real estate, the parsing of prices from websites implies the collection of offer prices and does not cover those objects that are rented at the current time and may also be subject to price changes. Given the sufficient amount of parsing data for cities of regional and republican significance, the capital of the Bureau will consider the possibility of combining prices obtained as a result of parsing and statistical observation. The analysis and experimental calculations will be continued in the 4th quarter of 2023 and 2024. Also, the task for the development of indicators on real estate statistics is the compilation of hedonic price indices. This is due to the fact that real estate objects may differ significantly in their characteristics, such as area, year of construction, location, and others. In addition, the composition of objects for a certain type of real estate, for which the average price is calculated, may vary from one period to another. To build reliable price indices, it is necessary to use a hedonic regression model that takes into account the influence of each feature of the object on the price.

The construction of indicators for the sale of commercial real estate, based only on the data of the SD RER, may not be reliable enough, since there are problems with the quality of data. In addition, as the calculation shows, the number of offer prices is many times greater than the number of actually completed transactions. Similar to rent of commercial real estate, work is required to study the possibility of using a combination of data.

During 2023-2024, experimental calculations of average prices for rent and sale of commercial real estate based on data from various sources will be continued and a time series analysis will be carried out to make decisions on the compilation of indicators.

References:

1. Commercial property price indicators: sources, methods and issues, Eurostat, 2017.

2. Roadmap for the development of state statistics and the national data ecosystem for 2023-2025, approved by Order of the Chairman of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan dated March 14, 2023 No. 21

Responsible for the release:	Director of the Department:	Executor: D. Abdrakhmanova	Address: 010000, Astana city				
Department of Price Statistics	K. Zhakypbekuly	Phone: +7 7172 749519	Mangilik el avenue, 8				
-	Phone:+7 7172 749057	E-mail: d.abdrakhmanova@aspire.gov.kz	House of Ministries, Entrance 4				
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