

Labor Market Outlook: August 2018



16 August 2018

SHARP INCREASE IN NON-AGRICULTURAL UNEMPLOYMENT CONTINUES

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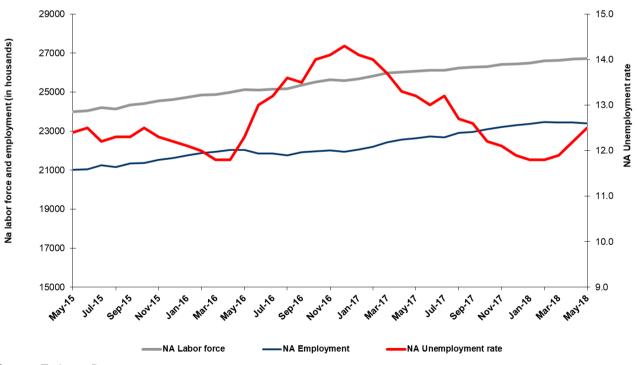
Executive Summary

Seasonally adjusted labor market data shows that, in the period of May 2018 compared to April 2018, non-agricultural unemployment rate increased by 0.3 percentage points and reached 12.5 percent. Thus, non-agricultural unemployment rate increased from 11.9 to 12.5 percent in the last two months. Consecutive decreases in employment are the reasons behind the increase in non-agricultural unemployment. Sectoral data indicates that employment decreased in all sectors except manufacturing. There have been strong employment losses in construction in the last three periods. Since employment losses occurred mostly in construction where men are more likely to be employed, the gender gap in non-agricultural unemployment rates have decreased in favor of women. Betam's forecasting model predicts that the non-agricultural unemployment will increase to 12.7 percent in the period of June 2018.

The non-agricultural labor force increased while employment decreased

According to seasonally adjusted labor market data, in the period of May 2018 compared to April 2018, the non-agricultural labor force increased by 34 thousand and reached 26 million 729 thousand while the number of employed in non-agricultural sectors decreased by 50 thousand and reached 23 million 388 thousand (Figure 1, Table 1). As result, the number of unemployed in non-agricultural sectors increased by 84 thousand and recorded as 3 million 241 thousand and the non-agricultural unemployment rate rose to 12.5 percent.

Figure 1 Seasonally adjusted non-agricultural labor force, employment, and unemployment



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Unemployment rate is expected to increase by 0.2 percentage point in the period of May 2018

Betam's forecasting model had predicted that the seasonally adjusted non-agricultural unemployment rate would increase to 12.3 percent in the May 2018. The non-agricultural unemployment rate rose to 12.5 percent in the period of May 2018. Betam's forecasting model predicts that the non-agricultural unemployment rate will reach to 12.7 percent in the period of June 2018. Forecasting model details are available on Betam's website. Kariyer.net application per vacancy series used in the Betam forecasting model is depicted in Figure 3. Kariyer.net series is only one of the inputs of Betam forecast model. Indeed, several variables such as employment agency (İŞKUR) data, reel sector confidence index, capacity utilization rate are used in forecasting.

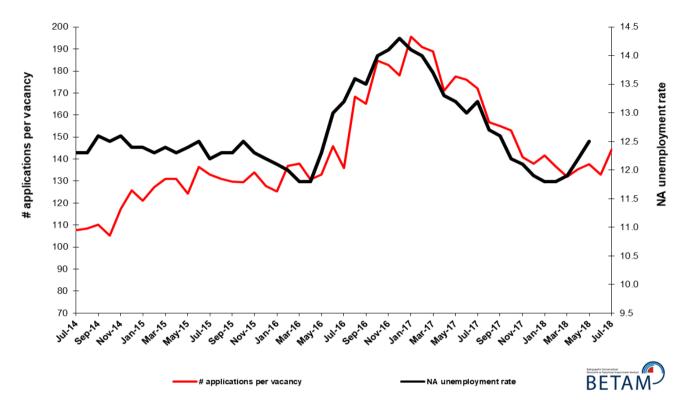


Figure 2 Seasonally adjusted non-agricultural unemployment rate and application per vacancy

Source: Kariyer.net, Turkstat, Betam

Employment decreases in construction continues

According to seasonally adjusted sectoral labor market data, employment decreased in all sectors except manufacturing in May 2018 compared to April 2018 (Figure 3, Table 2).³ Employment increased by 19 thousand in manufacturing while employment in agriculture, construction and services decreased by 48, 49 and 19 thousand respectively. Employment losses in construction in the last three periods have exceeded 150 thousand. It has to be noted that the total increase in employment in the service sector, which shoulders about half of the total employment, from December to May period was limited to 62 thousand.

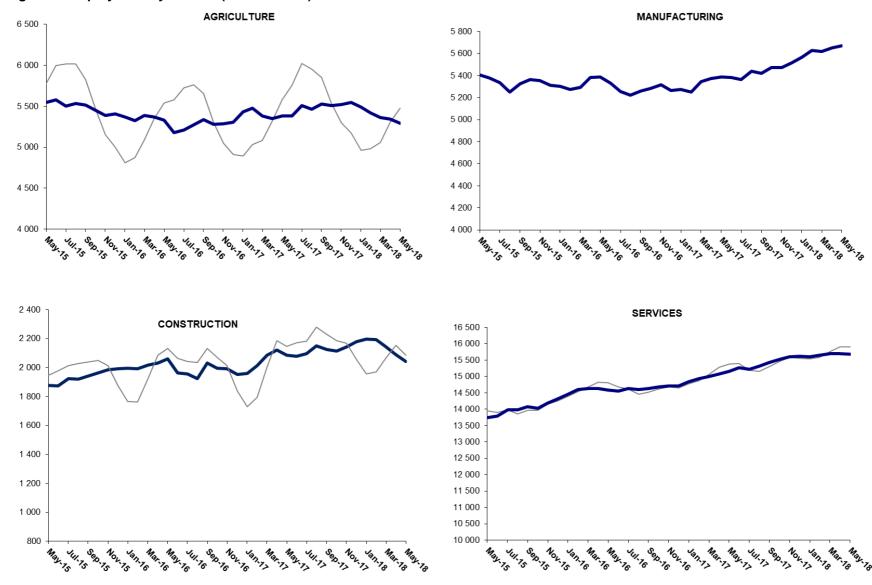
¹ For detailed information on Betam's forecasting model, please see Betam Research Brief 168 titled as "Kariyer.net Verisiyle Kısa Vadeli Tarım Dışı İşsizlik Tahmini" . For the innovations in the model please see Betam Research Brief 14 titled as "Mevsim Etkilerinden Arındırılmış İşsizlik Tahmini"

Soybilgen, B., "Kariyer.net Verisiyle Kısa Vadeli Tarım Dışı İşsizlik Tahmini", Betam Research Brief 168. http://betam.bahcesehir.edu.tr/tr/2014/06/kariyer-net-verisiyle-kisa-vadeli-tarim-disi-issizlik-tahmini/ Soybilgen, B., "Mevsim Etkilerinden Arındırılmış İşsizlik Tahmini", Betam Research Brief 14 http://betam.bahcesehir.edu.tr/2015/08/mevsim-etkilerinden-arindirilmis-tarim-disi-issizlik-tahmini/

² Betam has been calculating application per vacancy using series released by Kariyer.net for a while. Seasonal and calendar adjustment procedure is applied to application per vacancy series. A decrease in applications per vacancy may be caused by an increase in vacancies or by a decrease in the number of applications. An increase in vacancies signals economic growth while decreasing number of applications indicates a decrease in number of people looking for a job. Monthly labor market series released by TurkStat is the average of three months. Therefore, application per vacancy statistics calculated using Kariyer.net series is the average of three months as well.

³ Employment in each sector is seasonally adjusted separately. Hence the sum of these series may differ from the seasonally adjusted series of total employment. The difference stems from the non-linearity of the seasonal adjustment process.

Figure 3: Employment by sectors (in thousands)



Source: TURKSTAT, Betam

Decline in the number of non-agricultural unemployed within a year continues due to base effect

From May 2017 to May 2018 non-agricultural labor force increased by 668 thousand (2.6 percent) and non-agricultural employment increased by 747 thousand (3.3 percent) (Figure 4). Thus, non-agricultural unemployed decreased by 79 thousand and attained 3 million 104 thousand. Looking at annual changes, a slowdown in labor force increase and a sharp slowdown in employment increase became obvious. (Figure 4).

Figure 4 Year-on-year changes in non-agricultural labor force, employment, and unemployment



^{*} The change in labor force represented with a negative sign.

Source: Turkstat, Betam

Unemployment ratio difference between female and male decreased

Figure 5 shows seasonally adjusted non-agricultural unemployment rate for males (green) and for females (purple)⁴. In the period of May 2018, the non-agricultural female unemployment rate increased by 0.1 percentage points to 17.6 percent while non-agricultural male unemployment rate increased by 0.2 percentage points to 10.5 percent. In other words non-agricultural unemployment increases were larger for males. Thus, the gender gap in non-agricultural unemployment rates dropped from 7.2 percent in April 2018 to 7.1 percent in May 2018. This may be due to the fact that men are more likely to be employed more in construction where employment losses were stronger.

⁴ Turkstat revised the labor market statistics drastically in February 2014. Within this framework, they back casted various labor market indicators and they also continued to announce seasonally adjusted series. However, Turkstat is not providing back-casted series by gender. Therefore, female and male labor market statistics are not sufficiently long for the seasonal adjustment procedures (There should be minimum 36 observations). With the announcement of the period of February 2017 data, the number of observations required for the seasonal decontamination process was provided. From this period Betam get seasonal adjustment series in terms of gender. Nevertheless, it should not be forgotten that seasonal adjustment may cause extra volatility in the series for at least a while.

Figure 5: Seasonally adjusted non-agricultural unemployment rate by gender

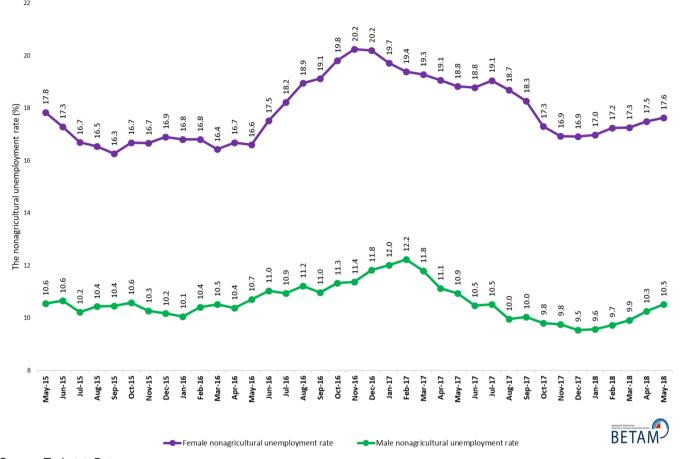


Table 1 Seasonally adjusted non-agricultural labor market indicators (in thousands) *

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	Labor			Unemployment	Mandhluahanna			
	force	Employment	Unemployment	rate	Monthly changes		ges	
April-15	23863	20928	2935	12.3%	Labor force	Employment	Unemployment	
			2976					
May-15	24001 24049	21025		12.4%	138	97	41 30	
June-15		21043	3006	12.5%	48	18		
July-15	24203	21250	2953	12.2%	154	207	-53	
August-15	24125	21158	2967	12.3%	-77	-92	15 27	
September-15	24342	21348	2994	12.3%	217	190	27	
October-15	24411	21360	3051	12.5%	69	12	57	
November-15	24546	21527	3019	12.3%	135	167	-32	
December-15	24622	21618	3004	12.2%	76	91	-15	
January-16	24745	21751	2994	12.1%	123	133	-10	
February-16	24851	21869	2982	12.0%	106	118	-12	
March-16	24875	21940	2935	11.8%	24	71	-47	
April-16	24995	22046	2949	11.8%	120	106	14	
May-16	25129	22038	3091	12.3%	133	-8	141	
June-16	25116	21851	3265	13.0%	-13	-187	174	
July-16	25164	21842	3322	13.2%	48	-9	57	
August-16	25171	21748	3423	13.6%	8	-94	102	
September-16	25351	21929	3422	13.5%	180	181	-1	
October-16	25530	21956	3574	14.0%	179	27	152	
November-16	25639	22024	3615	14.1%	109	68	41	
December-16	25596	21936	3660	14.3%	-43	-88	45	
January-17	25693	22070	3623	14.1%	96	134	-38	
February-17	25814	22200	3614	14.0%	121 130		-9	
March-17	25988	22428	3560	13.7%	174	228	-54	
April-17	26039	22576	3463	13.3%	51	148	-97	
May-17	26071	22630	3441	13.2%	32	54	-22	
June-17	26123	22727	3396	13.0%	52	97	-45	
July-17	26127	22678	3449	13.2%	4	-49	53	
August-17	26237	22905	3332	12.7%	110	227	-117	
September-17	26278	22967	3311	12.6%	41	62	-21	
October-17	26317	23106	3211	12.2%	39	139	-100	
November-17	26415	23219	3196	12.1%	99	113	-14	
December-17	26452	23304	3148	11.9%	37	85	-48	
January-18	26495	23369	3126	11.8%	44	65	-21	
February-18	26604	23465	3139	11.8%	109	96	13	
March-18	26621	23453	3168	11.9%	17	-12	29	
April-18	26695	23438	3257	12.2%	74	-15	89	
May-18	26729	23388	3341	12.5%	34	-50	84	

Table 2 Seasonally adjusted employment by sectors (in thousands) *

	Agriculture	Manufacturing	Construction	Service	Monthly changes			
April-15	5517	5326	1884	13718	Agriculture	Manufacturing	Construction	Service
May-15	5545	5404	1879	13742	28	78	-5	24
June-15	5581	5380	1874	13789	36	-24	-5	47
July-15	5504	5336	1925	13988	-77	-44	51	199
August-15	5535	5252	1921	13985	31	-84	-4	-3
September-15	5516	5327	1943	14077	-19	75	22	92
October-15	5449	5363	1962	14034	-67	36	19	-43
November-15	5386	5353	1986	14188	-63	-10	24	154
December-15	5407	5311	1991	14316	21	-42	5	128
January-16	5372	5300	1996	14455	-35	-11	5	139
February-16	5327	5276	1992	14601	-45	-24	-4	146
March-16	5388	5295	2018	14628	61	19	26	27
April-16	5370	5381	2033	14632	-18	86	15	4
May-16	5329	5386	2061	14591	-41	5	28	-41
June-16	5182	5330	1962	14559	-147	-56	-99	-32
July-16	5213	5254	1955	14633	31	-76	-7	74
August-16	5273	5224	1924	14599	60	-30	-31	-34
September-16	5338	5260	2031	14638	65	36	107	39
October-16	5283	5282	1997	14677	-55	22	-34	39
November-16	5285	5316	1994	14714	2	34	-3	37
December-16	5309	5265	1954	14717	24	-51	-40	3
January-17	5434	5274	1959	14837	125	9	5	120
February-17	5475	5251	2015	14934	41	-23	56	97
March-17	5385	5346	2086	14996	-90	95	71	62
April-17	5351	5372	2122	15082	-34	26	36	86
May-17	5382	5386	2087	15157	31	14	-35	75
June-17	5379	5383	2078	15266	-3	-3	-9	109
July-17	5506	5363	2098	15217	127	-20	20	-49
August-17	5467	5437	2152	15316	-39	74	54	99
September-17	5529	5421	2126	15420	62	-16	-26	104
October-17	5507	5470	2115	15522	-22	49	-11	102
November-17	5520	5470	2143	15606	13	0	28	84
December-17	5550 5403	5514 5567	2179	15612	30 57	44	36 10	6 -9
January-18	5493	5567 5637	2198	15603	-57	53	19 -6	
February-18 March-18	5419 5362	5627 5618	2192 2143	15647 15692	-74 -57	60 -9	-6 -49	44 45
April-18	5362 5341	5650	2091	15692	-57 -21	-9 32	-49 -52	45 5
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May-18	5293	5669	2042	15678	-48	19	-49	-19

Table 3: Seasonally adjusted non-agricultural labor force by gender (thousands)

	Female Labor Force	Female Employment	Female Unemployed	Male Labor Force	Male Employment	Male Unemployed
May-15	6624	5442	1182	17352	15521	1831
June-15	6657	5506	1151	17427	15571	1856
July-15	6751	5624	1127	17487	15699	1787
August-15	6715	5605	1110	17483	15659	1824
September-15	6760	5661	1099	17577	15741	1837
October-15	6782	5650	1132	17616	15753	1864
November-15	6876	5730	1146	17620	15812	1808
December-15	6968	5790	1178	17658	15863	1795
January-16	7011	5833	1178	17686	15908	1778
February-16	7044	5860	1184	17765	15917	1848
March-16	7058	5899	1159	17815	15942	1873
April-16	7143	5951	1191	17844	15993	1851
Мау-16	7174	5983	1191	17929	16009	1920
June-16	7261	5989	1272	17869	15898	1971
July-16	7271	5946	1325	17923	15963	1960
August-16	7328	5940	1388	17915	15904	2011
September-16	7377	5967	1410	17982	16010	1973
October-16	7443	5968	1475	18058	16014	2044
November-16	7460	5950	1510	18147	16083	2064
December-16	7457	5950	1507	18158	16011	2147
January-17	7450	5981	1469	18271	16077	2194
February-17	7509	6053	1456	18303	16064	2239
March-17	7613	6146	1468	18364	16198	2166
April-17	7600	6151	1449	18390	16345	2045
May-17	7650	6210	1440	18375	16365	2011
June-17	7669	6229	1440	18463	16530	1933
July-17	7681	6218	1463	18460	16519	1941
August-17	7734	6289	1445	18565	16716	1849
September-17	7768	6348	1420	18524	16666	1859
October-17	7793	6444	1348	18498	16685	1814
November-17	7829	6503	1326	18545	16736	1809
December-17	7887	6553	1334	18542	16773	1769
January-18	7923	6578	1345	18539	16767	1772
February-18	7952	6581	1371	18606	16798	1808
March-18	7948	6577	1372	18654	16805	1849
April-18	7985	6588	1397	18692	16775	1917
May-18	8020	6606	1414	18679	16716	1964