

## Current Data and Indicators

# Regional Forecasts of Unemployment and Employment in the German Federal States and Labour Market Districts

The following pages present forecasts of the Institute for Employment Research, Germany (IAB) of the number of unemployed as well as the number of people in employment subject to social security contributions in the western and eastern parts of Germany, the German Federal States and the labour market districts of the German Federal Employment Agency (Bundesagentur für Arbeit). At the IAB, the calculations are carried out in the Regional Research Network.

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## 1. Methodology

The forecasts for the number of unemployed and those in employment subject to social security contributions are carried out in a three-step process:

1. First, eight different time-series models are estimated. In two of these models, only former values of the dependent variable are included. These models adapt best to the short-term development in a region if there are large fluctuations in the region or there is no clear pattern in the recent past. Two further models decompose the time series into different components such as the level, trend, seasonal and business-cycle influences. The advantage of these two models is that they have a high and robust forecast quality if the time series has a regular and clearly identifiable long-term pattern. In order to profit from the advantages of both types of models, further models were constructed which use a combination of these two approaches. Especially in the case of relatively small regional units, as is the case with the labour market districts, it needs to be assumed that regional interdependencies play an important role. Such spatial interdependencies are accounted for in three further models. Two of these treat unemployment and employment as separate variables whereas the third model (first used in March 2011) also accounts for the dependencies between the unemployed (at their place of residence) and the employed (at their place of work). The models with spatial autocorrelation were developed at the IAB in order to improve the forecast accuracy.
2. In order to take the pros and cons of the different models used in the first step into account, an average of the models is calculated in a second step. However, in this so-called pooling, in each region only those models are included whose forecasts have the smallest deviation from the forecast for Germany. At the same time, in order to control for

international and national influences, we adjust the regional forecasts to fit the values for the national forecast which take these (inter)national dependencies into account. Hence, the national forecast is a further explanatory variable in our pooled model for every region. The current forecast is based on those in the IAB-Kurzbericht 6/2013 (in German only).

3. In order to verify the validity of the forecasts, the staff at the ten Regional Offices of the IAB check the plausibility of the results. In this step it is possible to take important unique events in a region into account. Thus, regional expertise is contained in the forecasts.

By definition, forecasts are uncertain. For this reason, lower and upper bounds are calculated so that the future true value lies within this interval with a probability of roughly 66%. Because the underlying regional forecast model differs from the one used for the national forecasts, the statistical uncertainty and hence the lower and upper bounds differ between the two.

A more complete explanation (in German only) of the methodology used can be found in:

Bach et al. (2009): Der deutsche Arbeitsmarkt – Entwicklungen und Perspektiven. In: Institut für Arbeitsmarkt- und Berufsforschung, Nürnberg (Ed.), Handbuch Arbeitsmarkt 2009, (IAB-Bibliothek, 314), Bielefeld: Bertelsmann, p. 64-78.

## 2. Employment in the Federal States yearly average

	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
		Forecast	Lower Bound	Upper Bound	... Forecast ...	... Lower Bound ...	... Upper Bound ...
<b>Federal State</b>							
Schleswig-Holstein	858,100	869,600	866,000	873,200	1.3	0.9	1.8
Hamburg	859,400	874,400	870,100	878,600	1.7	1.2	2.2
Lower Saxony	2,606,400	2,651,700	2,638,200	2,664,900	1.7	1.2	2.2
Bremen	298,100	301,000	299,800	302,100	1.0	0.6	1.3
North Rhine-Westphalia	6,081,700	6,136,500	6,109,900	6,163,100	0.9	0.5	1.3
Hessen	2,283,000	2,302,700	2,295,300	2,309,800	0.9	0.5	1.2
Rhineland-Palatinate	1,271,500	1,284,400	1,280,100	1,288,600	1.0	0.7	1.3
Baden-Württemberg	4,079,500	4,128,100	4,112,600	4,143,700	1.2	0.8	1.6
Bavaria	4,828,200	4,909,400	4,892,500	4,926,300	1.7	1.3	2.0
Saarland	365,100	366,200	364,300	368,000	0.3	-0.2	0.8
Berlin	1,194,400	1,217,400	1,211,200	1,223,700	1.9	1.4	2.5
Brandenburg	768,800	768,200	763,400	773,000	-0.1	-0.7	0.5
Mecklenburg-Vorpommern	526,100	528,000	524,000	532,100	0.4	-0.4	1.1
Saxony	1,452,900	1,455,600	1,446,900	1,464,600	0.2	-0.4	0.8
Saxony-Anhalt	756,600	754,400	751,200	757,700	-0.3	-0.7	0.1
Thuringia	757,200	757,400	751,300	763,600	0.0	-0.8	0.8
<b>Germany (western/eastern/Total)*</b>							
Germany, western	23,531,000	23,824,000	23,729,000	23,918,000	1.2	0.8	1.6
Germany, eastern	5,456,000	5,481,000	5,448,000	5,515,000	0.5	-0.1	1.1
Germany (Total)	28,987,000	29,305,000	29,177,000	29,433,000	1.1	0.7	1.5

\*\* Values for Germany (western/eastern/Total) are rounded off to the nearest 1000.

Please quote as: Garloff, Alfred; Otto Anne; Schanne, Norbert; Wapler, Rüdiger; Weyh, Antje; Zillmann, Manja (2013): Regional Labour-Market Forecasts of Unemployment and Employment in Germany 2013. Date of the Forecasts: March 26th, 2013.

Total values correspond to those in the IAB-Kurzbericht 6/2013.

Source: Forecasts are based on data of the Federal Employment Agency, Time-span: January 1993 to December 2012.

### 3. Employment in the Labour Market Districts yearly average

LMD-No.	Labour Market District	Federal State	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast*	Lower Bound**	Upper Bound**	... Forecast ...	... Lower Bound ...	... Upper Bound...
30	Greifswald	Mecklenburg-Vorpommern	74,900	74,800	74,100	75,500	-0.1	-1.1	0.8
31	Neubrandenburg	Mecklenburg-Vorpommern	88,600	88,600	88,000	89,100	0.0	-0.7	0.6
32	Rostock	Mecklenburg-Vorpommern	142,500	143,900	143,000	144,900	1.0	0.4	1.7
33	Schwerin	Mecklenburg-Vorpommern	151,000	151,600	150,300	153,000	0.4	-0.5	1.3
34	Stralsund	Mecklenburg-Vorpommern	69,100	69,100	68,500	69,700	0.0	-0.9	0.9
35	Cottbus	Brandenburg	201,500	200,600	199,200	202,100	-0.4	-1.1	0.3
36	Eberswalde	Brandenburg	80,900	80,700	79,800	81,700	-0.2	-1.4	1.0
37	Frankfurt (Oder)	Brandenburg	122,800	121,900	120,700	123,100	-0.7	-1.7	0.2
38	Neuruppin	Brandenburg	150,000	149,900	148,500	151,300	-0.1	-1.0	0.9
39	Potsdam	Brandenburg	213,600	215,100	213,500	216,700	0.7	0.0	1.5
41	Bernburg	Saxony-Anhalt	59,800	59,700	59,100	60,300	-0.2	-1.2	0.8
42	Dessau-Roßlau-Wittenberg	Saxony-Anhalt	129,800	128,900	128,100	129,700	-0.7	-1.3	-0.1
43	Halberstadt	Saxony-Anhalt	68,900	68,900	68,500	69,400	0.0	-0.6	0.7
44	Halle	Saxony-Anhalt	156,900	156,400	155,500	157,400	-0.3	-0.9	0.3
45	Magdeburg	Saxony-Anhalt	186,700	186,000	184,900	187,100	-0.4	-1.0	0.2
46	Weißenfels	Saxony-Anhalt	53,200	53,400	53,100	53,800	0.4	-0.2	1.1
47	Sangerhausen	Saxony-Anhalt	39,900	40,100	39,700	40,500	0.5	-0.5	1.5
48	Stendal	Saxony-Anhalt	61,400	61,000	60,600	61,500	-0.7	-1.3	0.2
71	Annaberg-Buchholz	Saxony	108,900	108,700	107,300	110,200	-0.2	-1.5	1.2
72	Bautzen	Saxony	182,400	180,900	179,300	182,400	-0.8	-1.7	0.0
73	Chemnitz	Saxony	108,200	107,900	106,900	108,900	-0.3	-1.2	0.6
74	Dresden	Saxony	233,800	234,700	232,700	236,800	0.4	-0.5	1.3
75	Leipzig	Saxony	224,300	228,600	226,600	230,600	1.9	1.0	2.8
76	Oschatz	Saxony	137,500	137,700	136,700	138,700	0.1	-0.6	0.9
77	Pirna	Saxony	71,200	71,300	70,800	71,700	0.1	-0.6	0.7
78	Plauen	Saxony	77,500	77,400	76,600	78,100	-0.1	-1.2	0.8
79	Riesa	Saxony	82,600	82,800	82,200	83,500	0.2	-0.5	1.1
80	Freiberg	Saxony	107,000	107,100	106,400	107,800	0.1	-0.6	0.7
92	Zwickau	Saxony	119,500	118,500	117,800	119,100	-0.8	-1.4	-0.3
93	Erfurt	Thuringia	205,200	206,000	204,500	207,500	0.4	-0.3	1.1
94	Altenburg-Gera	Thuringia	120,600	120,500	119,400	121,700	-0.1	-1.0	0.9
95	Gotha	Thuringia	78,500	78,700	77,700	79,700	0.3	-1.0	1.5

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LMD-No.	Labour Market District	Federal State	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast*	Lower Bound**	Upper Bound**	... Forecast ...	... Lower Bound ...	... Upper Bound...
96	Jena	Thuringia	112,900	113,100	112,300	113,800	0.2	-0.5	0.8
97	Nordhausen	Thuringia	80,600	80,400	79,400	81,300	-0.2	-1.5	0.9
98	Suhl	Thuringia	159,400	158,700	157,300	160,100	-0.4	-1.3	0.4
111	Bad Oldesloe	Schleswig-Holstein	117,000	118,000	117,400	118,600	0.9	0.3	1.4
115	Elmshorn	Schleswig-Holstein	161,200	163,100	162,300	163,900	1.2	0.7	1.7
119	Flensburg	Schleswig-Holstein	135,500	137,600	136,600	138,600	1.5	0.8	2.3
123	Hamburg	Hamburg	859,400	874,400	869,900	878,800	1.7	1.2	2.3
127	Heide	Schleswig-Holstein	70,400	71,300	70,900	71,700	1.3	0.7	1.8
131	Kiel	Schleswig-Holstein	133,200	135,100	134,500	135,800	1.4	1.0	2.0
135	Lübeck	Schleswig-Holstein	139,200	141,400	140,800	142,100	1.6	1.1	2.1
139	Neumünster	Schleswig-Holstein	101,600	103,100	102,500	103,700	1.5	0.9	2.1
211	Braunschweig-Goslar	Lower Saxony	225,700	227,600	226,100	229,000	0.8	0.2	1.5
214	Bremen-Bremerhaven	Bremen/Lower Saxony	320,900	324,600	323,100	326,100	1.2	0.7	1.6
221	Celle	Lower Saxony	94,900	96,800	96,300	97,300	2.0	1.5	2.5
224	Emden-Leer	Lower Saxony	135,800	139,900	138,800	141,000	3.0	2.2	3.8
231	Göttingen	Lower Saxony	159,600	161,200	160,100	162,200	1.0	0.3	1.6
234	Hameln	Lower Saxony	107,300	108,200	107,600	108,800	0.8	0.3	1.4
237	Hannover	Lower Saxony	454,000	460,300	457,800	462,800	1.4	0.8	1.9
241	Helmstedt	Lower Saxony	169,000	172,200	169,600	174,800	1.9	0.4	3.4
244	Hildesheim	Lower Saxony	112,100	113,100	112,500	113,600	0.9	0.4	1.3
251	Lüneburg-Uelzen	Lower Saxony	141,300	143,800	143,100	144,500	1.8	1.3	2.3
257	Nordhorn	Lower Saxony	155,300	159,200	158,100	160,300	2.5	1.8	3.2
261	Oldenburg-Wilhelmshaven	Lower Saxony	240,000	244,700	243,600	245,800	2.0	1.5	2.4
264	Osnabrück	Lower Saxony	193,600	197,400	196,000	198,800	2.0	1.2	2.7
267	Stade	Lower Saxony	146,200	149,100	148,400	149,800	2.0	1.5	2.5
274	Vechta	Lower Saxony	112,800	115,800	115,000	116,600	2.7	2.0	3.4
277	Nienburg-Verden	Lower Saxony	136,000	138,800	138,100	139,400	2.1	1.5	2.5
311	Aachen-Düren	North Rhine-Westphalia	323,000	327,100	325,700	328,400	1.3	0.8	1.7
315	Bergisch Gladbach	North Rhine-Westphalia	221,400	222,800	221,700	223,900	0.6	0.1	1.1
317	Bielefeld	North Rhine-Westphalia	281,500	285,800	284,000	287,500	1.5	0.9	2.1
321	Bochum	North Rhine-Westphalia	170,100	170,000	169,000	171,000	-0.1	-0.6	0.5
323	Bonn	North Rhine-Westphalia	295,700	297,400	295,800	299,000	0.6	0.0	1.1
325	Brühl	North Rhine-Westphalia	176,200	178,900	177,900	179,900	1.5	1.0	2.1
327	Coesfeld	North Rhine-Westphalia	182,200	184,800	183,500	186,100	1.4	0.7	2.1
331	Detmold	North Rhine-Westphalia	103,300	103,800	103,100	104,500	0.5	-0.2	1.2
333	Dortmund	North Rhine-Westphalia	206,300	208,900	207,200	210,600	1.3	0.4	2.1

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LMD-No.	Labour Market District	Federal State	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast*	Lower Bound**	Upper Bound**	... Forecast ...	... Lower Bound ...	... Upper Bound...
337	Düsseldorf	North Rhine-Westphalia	372,900	376,000	373,800	378,200	0.8	0.2	1.4
341	Duisburg	North Rhine-Westphalia	159,400	160,300	159,100	161,600	0.6	-0.2	1.4
343	Essen	North Rhine-Westphalia	225,100	225,500	223,600	227,400	0.2	-0.7	1.0
345	Gelsenkirchen	North Rhine-Westphalia	106,400	107,400	106,400	108,500	0.9	0.0	2.0
347	Hagen	North Rhine-Westphalia	164,400	163,800	162,700	164,800	-0.4	-1.0	0.2
351	Hamm	North Rhine-Westphalia	164,900	167,900	166,400	169,300	1.8	0.9	2.7
353	Herford	North Rhine-Westphalia	200,400	202,200	201,200	203,200	0.9	0.4	1.4
355	Iserlohn	North Rhine-Westphalia	149,700	150,600	149,400	151,900	0.6	-0.2	1.5
357	Köln	North Rhine-Westphalia	488,000	495,900	493,700	498,000	1.6	1.2	2.0
361	Krefeld	North Rhine-Westphalia	164,000	164,100	163,200	165,000	0.1	-0.5	0.6
364	Mettmann	North Rhine-Westphalia	170,500	171,000	170,000	171,900	0.3	-0.3	0.8
365	Mönchengladbach	North Rhine-Westphalia	218,000	220,300	219,200	221,300	1.1	0.6	1.5
367	Ahlen-Münster	North Rhine-Westphalia	229,000	230,900	229,900	231,900	0.8	0.4	1.3
371	Oberhausen	North Rhine-Westphalia	118,100	119,400	118,200	120,600	1.1	0.1	2.1
373	Paderborn	North Rhine-Westphalia	146,900	148,200	147,500	148,900	0.9	0.4	1.4
375	Recklinghausen	North Rhine-Westphalia	150,000	150,600	149,500	151,800	0.4	-0.3	1.2
377	Rheine	North Rhine-Westphalia	134,800	136,500	135,700	137,300	1.3	0.7	1.9
381	Siegen	North Rhine-Westphalia	157,800	158,800	157,700	160,000	0.6	-0.1	1.4
383	Meschede-Soest	North Rhine-Westphalia	193,400	195,400	194,300	196,500	1.0	0.5	1.6
387	Wesel	North Rhine-Westphalia	205,000	209,400	208,300	210,400	2.1	1.6	2.6
391	Solingen-Wuppertal	North Rhine-Westphalia	203,300	202,800	201,300	204,300	-0.2	-1.0	0.5
411	Bad Hersfeld-Fulda	Hessen	126,800	129,200	128,500	129,900	1.9	1.3	2.4
415	Darmstadt	Hessen	248,500	251,400	250,200	252,600	1.2	0.7	1.6
419	Frankfurt	Hessen	510,200	514,400	511,700	517,100	0.8	0.3	1.4
427	Gießen	Hessen	190,900	192,000	191,200	192,900	0.6	0.2	1.0
431	Hanau	Hessen	116,500	116,900	116,200	117,700	0.3	-0.3	1.0
433	Hofheim	Hessen	260,100	261,900	259,800	264,000	0.7	-0.1	1.5
435	Kassel	Hessen	195,200	196,400	195,100	197,800	0.6	-0.1	1.3
439	Korbach	Hessen	104,000	105,600	105,200	106,000	1.5	1.2	1.9
443	Limburg-Wetzlar	Hessen	133,200	134,400	133,700	135,100	0.9	0.4	1.4
447	Marburg	Hessen	83,600	84,400	84,000	84,900	1.0	0.5	1.6
451	Offenbach	Hessen	151,200	152,200	151,000	153,300	0.7	-0.1	1.4
459	Wiesbaden	Hessen	162,800	163,900	163,100	164,700	0.7	0.2	1.2
511	Bad Kreuznach	Rheinland-Palatinate	105,000	106,100	105,700	106,600	1.0	0.7	1.5
515	Kaiserslautern-Pirmasens	Rheinland-Palatinate	153,200	153,400	152,600	154,200	0.1	-0.4	0.7
519	Koblenz-Mayen	Rheinland-Palatinate	172,700	176,400	175,700	177,100	2.1	1.7	2.5

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LMD-No.	Labour Market District	Federal State	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast*	Lower Bound**	Upper Bound**	... Forecast ...	... Lower Bound ...	... Upper Bound...
523	Ludwigshafen	Rheinland-Palatinate	160,800	162,800	161,800	163,800	1.2	0.6	1.9
527	Mainz	Rheinland-Palatinate	210,300	212,600	211,500	213,700	1.1	0.6	1.6
535	Montabaur	Rheinland-Palatinate	90,100	90,500	90,100	90,900	0.4	0.0	0.9
543	Landau	Rheinland-Palatinate	132,200	133,500	132,700	134,200	1.0	0.4	1.5
547	Neuwied	Rheinland-Palatinate	88,900	89,400	88,900	89,900	0.6	0.0	1.1
555	Saarland	Saarland	365,100	366,200	364,200	368,100	0.3	-0.2	0.8
563	Trier	Rheinland-Palatinate	158,300	159,700	159,100	160,300	0.9	0.5	1.3
611	Aalen	Baden-Württemberg	156,900	158,800	157,900	159,700	1.2	0.6	1.8
614	Balingen	Baden-Württemberg	103,500	104,100	103,600	104,500	0.6	0.1	1.0
617	Freiburg	Baden-Württemberg	224,900	228,700	227,900	229,500	1.7	1.3	2.0
621	Göppingen	Baden-Württemberg	267,400	270,500	268,900	272,200	1.2	0.6	1.8
624	Heidelberg	Baden-Württemberg	231,400	234,400	233,300	235,500	1.3	0.8	1.8
627	Heilbronn	Baden-Württemberg	180,000	182,600	181,700	183,400	1.4	0.9	1.9
631	Karlsruhe-Rastatt	Baden-Württemberg	410,700	413,400	411,800	415,100	0.7	0.3	1.1
634	Konstanz-Ravensburg	Baden-Württemberg	270,100	273,700	272,500	274,900	1.3	0.9	1.8
637	Lörrach	Baden-Württemberg	118,100	119,800	119,300	120,400	1.4	1.0	1.9
641	Ludwigsburg	Baden-Württemberg	176,400	179,600	178,300	180,800	1.8	1.1	2.5
644	Mannheim	Baden-Württemberg	171,400	173,800	173,000	174,500	1.4	0.9	1.8
647	Nagold-Pforzheim	Baden-Württemberg	190,400	193,700	192,500	194,900	1.7	1.1	2.4
651	Offenburg	Baden-Württemberg	157,900	159,500	158,700	160,400	1.0	0.5	1.6
664	Reutlingen	Baden-Württemberg	167,000	168,500	167,800	169,200	0.9	0.5	1.3
671	Waiblingen	Baden-Württemberg	129,400	130,900	130,100	131,600	1.2	0.5	1.7
674	Schwäbisch Hall-Tauberbischofsheim	Baden-Württemberg	213,400	216,300	215,400	217,300	1.4	0.9	1.8
677	Stuttgart	Baden-Württemberg	519,500	526,000	522,900	529,200	1.3	0.7	1.9
684	Ulm	Baden-Württemberg	205,500	206,500	205,400	207,500	0.5	0.0	1.0
687	Rottweil-Villingen-Schwenningen	Baden-Württemberg	185,600	187,300	186,000	188,600	0.9	0.2	1.6
711	Ansbach-Weißenburg	Bavaria	140,500	142,800	142,200	143,400	1.6	1.2	2.1
715	Aschaffenburg	Bavaria	132,700	134,600	133,700	135,400	1.4	0.8	2.0
723	Bayreuth-Hof	Bavaria	174,500	175,000	174,100	176,000	0.3	-0.2	0.9
727	Bamberg-Coburg	Bavaria	218,200	220,300	219,300	221,300	1.0	0.5	1.4
729	Fürth	Bavaria	221,300	224,500	223,300	225,800	1.4	0.9	2.0
735	Nürnberg	Bavaria	338,300	341,100	339,400	342,900	0.8	0.3	1.4
739	Regensburg	Bavaria	219,900	223,900	222,800	225,000	1.8	1.3	2.3
743	Schwandorf	Bavaria	144,000	145,400	144,500	146,300	1.0	0.3	1.6
747	Schweinfurt	Bavaria	159,100	159,600	158,800	160,300	0.3	-0.2	0.8
751	Weiden	Bavaria	74,000	75,000	74,500	75,500	1.4	0.7	2.0

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LMD-No.	Labour Market District	Federal State	2012	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast*	Lower Bound**	Upper Bound**	... Forecast ...	... Lower Bound ...	... Upper Bound...
759	Würzburg	Bavaria	187,500	190,600	189,900	191,400	1.7	1.3	2.1
811	Augsburg	Bavaria	226,300	231,500	230,200	232,700	2.3	1.7	2.8
815	Deggendorf	Bavaria	113,600	115,900	115,000	116,800	2.0	1.2	2.8
819	Donauwörth	Bavaria	184,000	187,000	186,000	188,000	1.6	1.1	2.2
823	Freising	Bavaria	177,900	180,700	179,900	181,500	1.6	1.1	2.0
827	Ingolstadt	Bavaria	184,000	189,400	188,300	190,500	2.9	2.3	3.5
831	Kempten-Memmingen	Bavaria	233,700	238,200	237,200	239,200	1.9	1.5	2.4
835	Landshut-Pfarrkirchen	Bavaria	154,800	158,500	157,900	159,100	2.4	2.0	2.8
843	München	Bavaria	925,300	945,500	941,700	949,300	2.2	1.8	2.6
847	Passau	Bavaria	106,400	108,100	107,300	109,000	1.6	0.8	2.4
855	Rosenheim	Bavaria	164,700	167,800	167,100	168,600	1.9	1.5	2.4
859	Traunstein	Bavaria	165,400	168,000	167,200	168,800	1.6	1.1	2.1
863	Weilheim	Bavaria	182,100	186,000	185,200	186,900	2.1	1.7	2.6
900	Berlin	Berlin	1,194,400	1,217,400	1,210,900	1,223,900	1.9	1.4	2.5
<b>Germany (western/eastern/Total)*</b>									
Germany, western			23,531,000	23,824,000	23,729,000	23,918,000	1.2	0.8	1.6
Germany, eastern			5,456,000	5,481,000	5,448,000	5,515,000	0.5	-0.1	1.1
Germany (Total)			28,987,000	29,305,000	29,177,000	29,433,000	1.1	0.7	1.5

\* Due to rounding off, differences between the sum of the labour market districts and Germany can occur.

\*\* The statistical uncertainty which is represented in the lower and upper bounds is also affected by the size of a region. This means that the relative uncertainty of labour market districts is generally higher than for the Federal States. Therefore, the sums of the lower and upper bounds do not correspond to the values for the Federal States. The values for Germany (western/eastern/Total) shown here are those from the results of the sum of the Federal States.

Please quote as: Garloff, Alfred; Otto Anne; Schanne, Norbert; Wapler, Rüdiger; Weyh, Antje; Zillmann, Manja (2013): Regional Labour-Market Forecasts of Unemployment and Employment in Germany 2013. Date of the Forecasts: March 26th, 2013.

Total values correspond to those in the IAB-Kurzbericht 6/2013.

Source: Forecasts are based on data of the Federal Employment Agency. Time-span: January 1993 to December 2012.



## 4. Unemployment in the Federal States yearly average

	2012*	2013 GPD: +1.3%			Growth rate 2012 to ... 2013 (in %)		
		Forecast	Lower Bound	Upper Bound	... Forecast ...	... Lower Bound ...	... Upper Bound...
<b>Federal State</b>							
Schleswig-Holstein	100,000	96,900	92,300	101,500	-3.1	-7.7	1.5
Hamburg	70,400	68,000	64,600	71,400	-3.4	-8.2	1.4
Lower Saxony	264,500	256,700	243,900	269,500	-2.9	-7.8	1.9
Bremen	36,800	35,500	33,800	37,200	-3.5	-8.2	1.1
North Rhine-Westphalia	733,300	716,300	678,400	754,200	-2.3	-7.5	2.9
Hessen	178,300	174,300	165,800	182,800	-2.2	-7.0	2.5
Rheinland-Palatinate	111,100	109,600	104,100	115,000	-1.4	-6.3	3.5
Baden-Württemberg	222,200	221,300	204,800	237,800	-0.4	-7.8	7.0
Bavaria	248,800	255,300	232,600	278,000	2.6	-6.5	11.7
Saarland	34,300	35,100	33,800	36,400	2.3	-1.5	6.1
Berlin	215,400	211,000	201,600	220,500	-2.0	-6.4	2.4
Brandenburg	136,100	134,300	126,500	142,000	-1.3	-7.1	4.3
Mecklenburg-Vorpommern	101,900	102,800	96,200	109,300	0.9	-5.6	7.3
Saxony	207,800	203,500	192,300	214,600	-2.1	-7.5	3.3
Saxony-Anhalt	136,700	137,000	130,200	143,800	0.2	-4.8	5.2
Thuringia	99,300	98,400	91,600	105,200	-0.9	-7.8	5.9
<b>Germany (western/eastern/Total)*</b>							
Germany, western	2,000,000	1,969,000	1,854,000	2,084,000	-1.6	-7.3	4.2
Germany, eastern	897,000	887,000	838,000	935,000	-1.1	-6.6	4.2
Germany (Total)	2,897,000	2,856,000	2,692,000	3,019,000	-1.4	-7.1	4.2

\* Numbers for 2012 are real values and not forecasts. Due to rounding off, the sums for Germany (western/eastern/Total) may diverge slightly.

Please quote as: Garloff, Alfred; Otto Anne; Schanne, Norbert; Wapler, Rüdiger; Weyh, Antje; Zillmann, Manja (2013): Regional Labour-Market Forecasts of Unemployment and Employment in Germany 2013.

Date of the Forecasts: March 26th, 2013.

Total values correspond to those in the IAB-Kurzbericht 6/2013.

Source: Forecasts are based on data of the Federal Employment Agency including the unemployed registered at local communities. Time-span: December 1997 to February 2013.

## 5. Unemployment in the Labour Market Districts yearly average

LMD-No.	Labour Market District	Federal State	2012*	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast**	Lower Bound***	Upper Bound***	... Forecast ...	... Lower Bound ...	... Upper Bound...
30	Greifswald	Mecklenburg-Vorpommern	16,800	17,900	16,600	19,100	6.5	-1.2	13.7
31	Neubrandenburg	Mecklenburg-Vorpommern	20,100	20,100	19,000	21,200	0.0	-5.5	5.5
32	Rostock	Mecklenburg-Vorpommern	23,300	23,500	21,800	25,100	0.9	-6.4	7.7
33	Schwerin	Mecklenburg-Vorpommern	25,700	24,400	23,100	25,800	-5.1	-10.1	0.4
34	Stralsund	Mecklenburg-Vorpommern	16,000	16,900	15,900	17,900	5.6	-0.6	11.9
35	Cottbus	Brandenburg	36,100	37,100	34,800	39,400	2.8	-3.6	9.1
36	Eberswalde	Brandenburg	20,700	19,400	18,000	20,900	-6.3	-13.0	1.0
37	Frankfurt (Oder)	Brandenburg	24,000	23,200	21,900	24,600	-3.3	-8.8	2.5
38	Neuruppin	Brandenburg	29,100	28,400	26,300	30,400	-2.4	-9.6	4.5
39	Potsdam	Brandenburg	26,200	26,200	25,400	27,000	0.0	-3.1	3.1
41	Bernburg	Saxony-Anhalt	12,600	12,700	11,800	13,600	0.8	-6.3	7.9
42	Dessau-Roßlau-Wittenberg	Saxony-Anhalt	23,900	24,300	23,000	25,600	1.7	-3.8	7.1
43	Halberstadt	Saxony-Anhalt	11,600	11,300	10,700	11,900	-2.6	-7.8	2.6
44	Halle	Saxony-Anhalt	24,400	24,600	23,100	26,000	0.8	-5.3	6.6
45	Magdeburg	Saxony-Anhalt	27,300	27,300	25,400	29,100	0.0	-7.0	6.6
46	Weißenfels	Saxony-Anhalt	12,900	13,100	12,400	13,800	1.6	-3.9	7.0
47	Sangerhausen	Saxony-Anhalt	10,400	10,200	9,400	10,900	-1.9	-9.6	4.8
48	Stendal	Saxony-Anhalt	13,500	13,500	12,700	14,300	0.0	-5.9	5.9
71	Annaberg-Buchholz	Saxony	17,000	16,500	15,200	17,900	-2.9	-10.6	5.3
72	Bautzen	Saxony	33,600	31,400	29,500	33,400	-6.5	-12.2	-0.6
73	Chemnitz	Saxony	13,200	13,000	12,400	13,600	-1.5	-6.1	3.0
74	Dresden	Saxony	24,400	25,000	23,900	26,100	2.5	-2.0	7.0
75	Leipzig	Saxony	30,600	30,500	28,800	32,200	-0.3	-5.9	5.2
76	Oschatz	Saxony	25,900	24,200	22,900	25,500	-6.6	-11.6	-1.5
77	Pirna	Saxony	11,500	11,400	10,700	12,200	-0.9	-7.0	6.1
78	Plauen	Saxony	10,200	10,500	9,500	11,500	2.9	-6.9	12.7
79	Riesa	Saxony	12,100	12,400	11,500	13,300	2.5	-5.0	9.9
80	Freiberg	Saxony	14,800	15,000	13,900	16,200	1.4	-6.1	9.5
92	Zwickau	Saxony	14,400	13,600	12,400	14,800	-5.6	-13.9	2.8
93	Erfurt	Thuringia	25,200	24,800	23,200	26,400	-1.6	-7.9	4.8
94	Altenburg-Gera	Thuringia	20,300	20,000	18,400	21,500	-1.5	-9.4	5.9
95	Gotha	Thuringia	12,200	12,300	11,500	13,100	0.8	-5.7	7.4

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LMD-No.	Labour Market District	Federal State	2012*	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast**	Lower Bound***	Upper Bound***	... Forecast ...	... Lower Bound ...	... Upper Bound...
96	Jena	Thuringia	12,100	12,100	11,100	13,200	0.0	-8.3	9.1
97	Nordhausen	Thuringia	13,400	13,400	12,300	14,500	0.0	-8.2	8.2
98	Suhl	Thuringia	16,100	15,800	14,000	17,500	-1.9	-13.0	8.7
111	Bad Oldesloe	Schleswig-Holstein	10,900	10,800	10,000	11,500	-0.9	-8.3	5.5
115	Elmshorn	Schleswig-Holstein	15,400	14,800	14,100	15,500	-3.9	-8.4	0.6
119	Flensburg	Schleswig-Holstein	18,900	18,600	17,700	19,400	-1.6	-6.3	2.6
123	Hamburg	Hamburg	70,400	68,000	65,200	70,700	-3.4	-7.4	0.4
127	Heide	Schleswig-Holstein	9,200	8,800	8,300	9,300	-4.3	-9.8	1.1
131	Kiel	Schleswig-Holstein	16,300	15,700	14,700	16,700	-3.7	-9.8	2.5
135	Lübeck	Schleswig-Holstein	17,400	16,400	15,400	17,400	-5.7	-11.5	0.0
139	Neumünster	Schleswig-Holstein	11,700	11,800	11,000	12,600	0.9	-6.0	7.7
211	Braunschweig-Goslar	Lower Saxony	23,900	23,000	21,900	24,100	-3.8	-8.4	0.8
214	Bremen-Bremerhaven	Bremen/Lower Saxony	39,300	38,400	37,000	39,800	-2.3	-5.9	1.3
221	Celle	Lower Saxony	11,600	10,900	10,200	11,600	-6.0	-12.1	0.0
224	Emden-Leer	Lower Saxony	16,700	16,200	15,200	17,300	-3.0	-9.0	3.6
231	Göttingen	Lower Saxony	16,000	15,900	15,000	16,800	-0.6	-6.3	5.0
234	Hameln	Lower Saxony	14,900	14,300	13,500	15,100	-4.0	-9.4	1.3
237	Hannover	Lower Saxony	47,500	46,700	43,500	49,900	-1.7	-8.4	5.1
241	Helmstedt	Lower Saxony	11,500	10,900	10,000	11,700	-5.2	-13.0	1.7
244	Hildesheim	Lower Saxony	14,900	14,500	13,600	15,400	-2.7	-8.7	3.4
251	Lüneburg-Uelzen	Lower Saxony	17,600	16,800	16,000	17,600	-4.5	-9.1	0.0
257	Nordhorn	Lower Saxony	9,000	9,000	8,300	9,800	0.0	-7.8	8.9
261	Oldenburg-Wilhelmshaven	Lower Saxony	28,100	26,900	25,400	28,300	-4.3	-9.6	0.7
264	Osnabrück	Lower Saxony	13,800	13,300	12,500	14,100	-3.6	-9.4	2.2
267	Stade	Lower Saxony	16,500	15,700	14,700	16,700	-4.8	-10.9	1.2
274	Vechta	Lower Saxony	7,400	7,400	6,900	7,900	0.0	-6.8	6.8
277	Nienburg-Verden	Lower Saxony	12,700	12,300	11,600	13,000	-3.1	-8.7	2.4
311	Aachen-Düren	North Rhine-Westphalia	43,600	41,800	39,000	44,700	-4.1	-10.6	2.5
315	Bergisch Gladbach	North Rhine-Westphalia	23,800	23,100	21,600	24,500	-2.9	-9.2	2.9
317	Bielefeld	North Rhine-Westphalia	24,200	24,000	22,600	25,300	-0.8	-6.6	4.5
321	Bochum	North Rhine-Westphalia	28,100	27,500	25,900	29,100	-2.1	-7.8	3.6
323	Bonn	North Rhine-Westphalia	27,300	27,200	25,600	28,800	-0.4	-6.2	5.5
325	Brühl	North Rhine-Westphalia	23,700	23,400	22,100	24,800	-1.3	-6.8	4.6
327	Coesfeld	North Rhine-Westphalia	11,800	11,500	10,200	12,800	-2.5	-13.6	8.5
331	Detmold	North Rhine-Westphalia	13,300	12,900	11,900	14,000	-3.0	-10.5	5.3
333	Dortmund	North Rhine-Westphalia	37,500	36,800	34,500	39,000	-1.9	-8.0	4.0

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LMD-No.	Labour Market District	Federal State	2012*	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast**	Lower Bound***	Upper Bound***	... Forecast ...	... Lower Bound ...	... Upper Bound...
337	Düsseldorf	North Rhine-Westphalia	27,200	25,800	24,300	27,400	-5.1	-10.7	0.7
341	Duisburg	North Rhine-Westphalia	31,200	30,700	28,600	32,800	-1.6	-8.3	5.1
343	Essen	North Rhine-Westphalia	35,600	34,300	32,200	36,400	-3.7	-9.6	2.2
345	Gelsenkirchen	North Rhine-Westphalia	22,900	21,400	20,100	22,800	-6.6	-12.2	-0.4
347	Hagen	North Rhine-Westphalia	21,900	21,500	20,200	22,700	-1.8	-7.8	3.7
351	Hamm	North Rhine-Westphalia	28,400	27,900	26,600	29,300	-1.8	-6.3	3.2
353	Herford	North Rhine-Westphalia	17,300	16,100	15,000	17,300	-6.9	-13.3	0.0
355	Iserlohn	North Rhine-Westphalia	15,000	14,800	13,500	16,100	-1.3	-10.0	7.3
357	Köln	North Rhine-Westphalia	50,200	49,500	46,800	52,200	-1.4	-6.8	4.0
361	Krefeld	North Rhine-Westphalia	23,100	22,900	21,800	24,000	-0.9	-5.6	3.9
364	Mettmann	North Rhine-Westphalia	17,200	17,000	15,900	18,200	-1.2	-7.6	5.8
365	Mönchengladbach	North Rhine-Westphalia	28,200	27,600	26,400	28,900	-2.1	-6.4	2.5
367	Ahlen-Münster	North Rhine-Westphalia	17,100	17,200	16,300	18,200	0.6	-4.7	6.4
371	Oberhausen	North Rhine-Westphalia	19,000	18,700	17,400	19,900	-1.6	-8.4	4.7
373	Paderborn	North Rhine-Westphalia	13,800	13,000	11,900	14,200	-5.8	-13.8	2.9
375	Recklinghausen	North Rhine-Westphalia	33,700	33,200	31,200	35,100	-1.5	-7.4	4.2
377	Rheine	North Rhine-Westphalia	10,600	10,800	10,100	11,400	1.9	-4.7	7.5
381	Siegen	North Rhine-Westphalia	11,600	11,100	9,800	12,300	-4.3	-15.5	6.0
383	Meschede-Soest	North Rhine-Westphalia	17,000	16,600	14,800	18,400	-2.4	-12.9	8.2
387	Wesel	North Rhine-Westphalia	25,900	26,000	24,100	27,800	0.4	-6.9	7.3
391	Solingen-Wuppertal	North Rhine-Westphalia	32,800	32,000	29,500	34,600	-2.4	-10.1	5.5
411	Bad Hersfeld-Fulda	Hessen	7,300	7,000	6,400	7,600	-4.1	-12.3	4.1
415	Darmstadt	Hessen	20,700	20,400	19,200	21,600	-1.4	-7.2	4.3
419	Frankfurt	Hessen	25,700	25,300	24,000	26,600	-1.6	-6.6	3.5
427	Gießen	Hessen	19,600	18,900	17,900	20,000	-3.6	-8.7	2.0
431	Hanau	Hessen	10,700	10,200	9,500	11,000	-4.7	-11.2	2.8
433	Hofheim	Hessen	17,200	17,700	17,000	18,500	2.9	-1.2	7.6
435	Kassel	Hessen	18,800	17,800	16,500	19,200	-5.3	-12.2	2.1
439	Korbach	Hessen	8,800	8,400	7,800	9,000	-4.5	-11.4	2.3
443	Limburg-Wetzlar	Hessen	12,800	13,000	12,000	14,000	1.6	-6.3	9.4
447	Marburg	Hessen	6,000	5,800	5,500	6,200	-3.3	-8.3	3.3
451	Offenbach	Hessen	16,400	15,900	14,800	17,000	-3.0	-9.8	3.7
459	Wiesbaden	Hessen	14,400	13,900	13,100	14,800	-3.5	-9.0	2.8
511	Bad Kreuznach	Rheinland-Palatinate	10,700	10,600	10,000	11,200	-0.9	-6.5	4.7
515	Kaiserslautern-Pirmasens	Rheinland-Palatinate	18,700	18,400	17,200	19,600	-1.6	-8.0	4.8
519	Koblenz-Mayen	Rheinland-Palatinate	13,300	13,100	12,300	13,900	-1.5	-7.5	4.5

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LMD-No.	Labour Market District	Federal State	2012*	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast**	Lower Bound***	Upper Bound***	... Forecast ...	... Lower Bound ...	... Upper Bound...
523	Ludwigshafen	Rheinland-Palatinate	13,700	13,000	12,400	13,700	-5.1	-9.5	0.0
527	Mainz	Rheinland-Palatinate	17,300	17,500	16,800	18,200	1.2	-2.9	5.2
535	Montabaur	Rheinland-Palatinate	7,000	6,700	6,100	7,200	-4.3	-12.9	2.9
543	Landau	Rheinland-Palatinate	10,700	10,800	10,100	11,500	0.9	-5.6	7.5
547	Neuwied	Rheinland-Palatinate	9,100	8,900	8,200	9,600	-2.2	-9.9	5.5
555	Saarland	Saarland	34,300	35,100	34,000	36,200	2.3	-0.9	5.5
563	Trier	Rheinland-Palatinate	10,600	10,600	10,000	11,200	0.0	-5.7	5.7
611	Aalen	Baden-Württemberg	9,400	9,000	8,100	10,000	-4.3	-13.8	6.4
614	Balingen	Baden-Württemberg	6,800	6,600	5,900	7,400	-2.9	-13.2	8.8
617	Freiburg	Baden-Württemberg	13,300	13,200	12,600	13,700	-0.8	-5.3	3.0
621	Göppingen	Baden-Württemberg	15,400	15,100	13,600	16,600	-1.9	-11.7	7.8
624	Heidelberg	Baden-Württemberg	14,900	14,900	13,800	16,000	0.0	-7.4	7.4
627	Heilbronn	Baden-Württemberg	10,100	10,500	9,700	11,300	4.0	-4.0	11.9
631	Karlsruhe-Rastatt	Baden-Württemberg	21,600	20,700	19,500	21,900	-4.2	-9.7	1.4
634	Konstanz-Ravensburg	Baden-Württemberg	13,100	13,000	12,000	14,000	-0.8	-8.4	6.9
637	Lörrach	Baden-Württemberg	7,300	7,300	6,700	7,800	0.0	-8.2	6.8
641	Ludwigsburg	Baden-Württemberg	10,400	10,500	9,700	11,300	1.0	-6.7	8.7
644	Mannheim	Baden-Württemberg	9,300	8,800	8,200	9,500	-5.4	-11.8	2.2
647	Nagold-Pforzheim	Baden-Württemberg	13,000	12,800	11,800	13,900	-1.5	-9.2	6.9
651	Offenburg	Baden-Württemberg	8,400	8,600	7,800	9,400	2.4	-7.1	11.9
664	Reutlingen	Baden-Württemberg	9,400	9,600	8,900	10,300	2.1	-5.3	9.6
671	Waiblingen	Baden-Württemberg	8,400	8,500	7,800	9,100	1.2	-7.1	8.3
674	Schwäbisch Hall-Tauberbischofsheim	Baden-Württemberg	10,600	10,300	9,000	11,600	-2.8	-15.1	9.4
677	Stuttgart	Baden-Württemberg	23,700	24,200	22,400	26,100	2.1	-5.5	10.1
684	Ulm	Baden-Württemberg	8,800	9,100	8,100	10,100	3.4	-8.0	14.8
687	Rottweil-Villingen-Schwenningen	Baden-Württemberg	8,400	8,600	7,400	9,900	2.4	-11.9	17.9
711	Ansbach-Weißenburg	Bavaria	7,100	7,400	6,400	8,300	4.2	-9.9	16.9
715	Aschaffenburg	Bavaria	7,000	7,400	6,700	8,100	5.7	-4.3	15.7
723	Bayreuth-Hof	Bavaria	11,800	12,200	10,900	13,400	3.4	-7.6	13.6
727	Bamberg-Coburg	Bavaria	12,700	12,900	11,200	14,500	1.6	-11.8	14.2
729	Fürth	Bavaria	11,500	11,900	11,100	12,600	3.5	-3.5	9.6
735	Nürnberg	Bavaria	24,100	24,500	23,300	25,700	1.7	-3.3	6.6
739	Regensburg	Bavaria	9,000	9,400	8,100	10,600	4.4	-10.0	17.8
743	Schwandorf	Bavaria	7,900	8,400	7,300	9,500	6.3	-7.6	20.3
747	Schweinfurt	Bavaria	8,700	8,900	7,900	9,800	2.3	-9.2	12.6
751	Weiden	Bavaria	5,500	5,700	5,000	6,400	3.6	-9.1	16.4

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LMD-No.	Labour Market District	Federal State	2012*	2013 GDP: +1.3%			Growth rate 2012 to ... 2013 (in %)		
				Forecast**	Lower Bound***	Upper Bound***	... Forecast ...	... Lower Bound ...	... Upper Bound...
759	Würzburg	Bavaria	9,000	9,000	8,300	9,600	0.0	-7.8	6.7
811	Augsburg	Bavaria	14,600	14,500	12,900	16,200	-0.7	-11.6	11.0
815	Deggendorf	Bavaria	6,500	6,600	5,500	7,600	1.5	-15.4	16.9
819	Donauwörth	Bavaria	7,500	7,900	6,900	9,000	5.3	-8.0	20.0
823	Freising	Bavaria	7,100	7,400	6,600	8,200	4.2	-7.0	15.5
827	Ingolstadt	Bavaria	5,700	5,700	4,900	6,500	0.0	-14.0	14.0
831	Kempten-Memmingen	Bavaria	10,500	11,000	9,800	12,200	4.8	-6.7	16.2
835	Landshut-Pfarrkirchen	Bavaria	6,900	7,000	6,300	7,800	1.4	-8.7	13.0
843	München	Bavaria	41,800	42,700	40,100	45,200	2.2	-4.1	8.1
847	Passau	Bavaria	6,800	7,100	6,300	7,900	4.4	-7.4	16.2
855	Rosenheim	Bavaria	8,300	8,500	7,800	9,100	2.4	-6.0	9.6
859	Traunstein	Bavaria	8,500	9,000	7,800	10,200	5.9	-8.2	20.0
863	Weilheim	Bavaria	10,100	10,200	9,200	11,200	1.0	-8.9	10.9
900	Berlin	Berlin	215,400	211,000	201,800	220,200	-2.0	-6.3	2.2
<b>Germany (western/eastern/Total)</b>									
Germany, western			2,000,000	1,969,000	1,854,000	2,084,000	-1.6	-7.3	4.2
Germany, eastern			897,000	887,000	838,000	935,000	-1.1	-6.6	4.2
Germany (Total)				2,856,000	2,692,000	3,019,000	-1.4	-7.1	4.2

\* Numbers for 2012 are real values and not forecasts.

\*\* Due to rounding off, differences between the sum of the labour market districts and Germany can occur.

\*\*\* The statistical uncertainty which is represented in the lower and upper bounds is also affected by the size of a region. This means that the relative uncertainty of labour market districts is generally higher than for the Federal States. Therefore, the sums of the lower and upper bounds do not correspond to the values for the Federal States. The values for Germany (western/eastern/Total) shown here are those from the results of the sum of the Federal States.

Please quote as: Garloff, Alfred; Otto Anne; Schanne, Norbert; Wapler, Rüdiger; Weyh, Antje; Zillmann, Manja (2013): Regional Labour-Market Forecasts of Unemployment and Employment in Germany 2013. Date of the Forecasts: March 26th, 2013.

Total values correspond to those in the IAB-Kurzbericht 6/2013.

Source: Forecasts are based on data of the Federal Employment Agency including the unemployed registered at local communities. Time-span: December 1997 to February 2013.

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## **Notes**

Total values correspond to those in the IAB-Kurzbericht 6/2013.

Forecasts are based on statistical data of the Federal Employment Agency.

The time span for the employment data is January 1993 to December 2012. For unemployment, the data ranges from December 1997 to February 2013.

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