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LAMPIRAN

Lampiran 1. Data Mentah

Kabupaten	Kode Kabupaten	Tahun	Pertumbuhan Ekonomi	Pengeluaran Ekonomi
Kepulauan Selayar	7301	2011	8,88	447577265511
Bulukumba	7302	2011	7,88	728769053136
Bantaeng	7303	2011	8,18	443484624913
Jeneponto	7304	2011	9,01	572762099051
Takalar	7305	2011	8,83	539078567806
Gowa	7306	2011	7,35	810654354446
Sinjai	7307	2011	7,61	527680265062
Maros	7308	2011	8,75	577672492774
Pangkajene dan Kepulauan	7309	2011	7,66	649842832429
Barru	7310	2011	-1,78	517766736206
Bone	7311	2011	4,02	1026135355621
Soppeng	7312	2011	3,67	574321253182
Wajo	7313	2011	3,68	763391661116
Sidenreng Rappang	7314	2011	5,49	595591702664
Pinrang	7315	2011	9,65	693596323241
Enrekang	7316	2011	7,77	516874332505
Luwu	7317	2011	8,54	669748417294
Tana Toraja	7318	2011	5,66	562471095671
Luwu Utara	7322	2011	6,77	651012058371
Luwu Timur	7325	2011	6,89	579555754672
Toraja Utara	7326	2011	5,05	450477564107
Makassar	7371	2011	5,49	1711878129986
Parepare	7372	2011	0,43	516129069923
Palopo	7373	2011	4,76	498403458037
Kepulauan Selayar	7301	2012	3,81	477293858748
Bulukumba	7302	2012	4,11	733775226436
Bantaeng	7303	2012	9,38	468460819058
Jeneponto	7304	2012	9,67	565688174428
Takalar	7305	2012	9,00	633508976334
Gowa	7306	2012	8,34	853559473037
Sinjai	7307	2012	6,64	549443238921
Maros	7308	2012	7,39	667738324273
Pangkajene dan Kepulauan	7309	2012	7,31	746752648580
Barru	7310	2012	8,13	518007466533
Bone	7311	2012	10,75	1149246094807
Soppeng	7312	2012	0,52	617230882455
Wajo	7313	2012	8,86	868227665271
Sidenreng Rappang	7314	2012	15,45	566462997279
Pinrang	7315	2012	5,56	712356792807
Enrekang	7316	2012	8,44	527100625245

Luwu	7317	2012	7,55	657160307214
Tana Toraja	7318	2012	6,64	593075664974
Luwu Utara	7322	2012	7,94	689013187519
Luwu Timur	7325	2012	6,53	676264955258
Toraja Utara	7326	2012	8,32	534401357645
Makassar	7371	2012	8,25	1966706011525
Parepare	7372	2012	6,29	475028825622
Palopo	7373	2012	5,47	525772059998
Kepulauan Selayar	7301	2013	0,16	594111751052
Bulukumba	7302	2013	5,40	885317588580
Bantaeng	7303	2013	3,81	570850607957
Jeneponto	7304	2013	1,90	708318313724
Takalar	7305	2013	7,59	669958598461
Gowa	7306	2013	6,58	1057021023264
Sinjai	7307	2013	8,80	633158289351
Maros	7308	2013	9,77	871051679383
Pangkajene dan Kepulauan	7309	2013	8,41	862387709764
Barru	7310	2013	9,61	571036944883
Bone	7311	2013	7,37	1366450547029
Soppeng	7312	2013	6,66	741943967305
Wajo	7313	2013	6,87	948925431317
Sidenreng Rappang	7314	2013	-0,61	738651821492
Pinrang	7315	2013	5,05	814061236542
Enrekang	7316	2013	4,64	589314645304
Luwu	7317	2013	3,86	787573915218
Tana Toraja	7318	2013	7,46	592636051639
Luwu Utara	7322	2013	8,15	723739328269
Luwu Timur	7325	2013	9,42	734390130994
Toraja Utara	7326	2013	7,17	605018377726
Makassar	7371	2013	6,80	2335016785371
Parepare	7372	2013	7,57	565544391750
Palopo	7373	2013	7,21	581368549681
Kepulauan Selayar	7301	2014	7,14	654565983466
Bulukumba	7302	2014	7,46	1072406343370
Bantaeng	7303	2014	1,76	622631497974
Jeneponto	7304	2014	7,26	794224333182
Takalar	7305	2014	4,59	817584343523
Gowa	7306	2014	5,82	1258644753098
Sinjai	7307	2014	7,60	761671439877
Maros	7308	2014	7,32	966872120387
Pangkajene dan Kepulauan	7309	2014	7,79	1061253707844
Barru	7310	2014	6,99	639587356515
Bone	7311	2014	7,54	1487000153623
Soppeng	7312	2014	7,09	841739144164

Wajo	7313	2014	7,23	1066973933363
Sidenreng Rappang	7314	2014	7,44	812668038096
Pinrang	7315	2014	6,12	947865052322
Enrekang	7316	2014	1,55	656765137306
Luwu	7317	2014	5,23	917358824487
Tana Toraja	7318	2014	4,87	734425841662
Luwu Utara	7322	2014	5,71	848071235049
Luwu Timur	7325	2014	11,24	945141334959
Toraja Utara	7326	2014	11,14	702694675951
Makassar	7371	2014	6,28	2606083333328
Parepare	7372	2014	4,73	614787845061
Palopo	7373	2014	8,58	648463722688
Kepulauan Selayar	7301	2015	9,50	750964957087
Bulukumba	7302	2015	6,81	1370710592645
Bantaeng	7303	2015	6,19	775395766140
Jeneponto	7304	2015	1,24	1016032203915
Takalar	7305	2015	-10,87	964299330814
Gowa	7306	2015	1,36	1472120934355
Sinjai	7307	2015	9,13	926688086441
Maros	7308	2015	5,00	1119660085553
Pangkajene dan Kepulauan	7309	2015	9,84	1230757122765
Barru	7310	2015	8,26	883640382643
Bone	7311	2015	9,33	1841775310345
Soppeng	7312	2015	10,42	997459449170
Wajo	7313	2015	7,98	1251469836831
Sidenreng Rappang	7314	2015	8,31	1044498205910
Pinrang	7315	2015	6,60	1155529952899
Enrekang	7316	2015	4,76	903110164897
Luwu	7317	2015	6,41	1145226037422
Tana Toraja	7318	2015	-1,69	905654498944
Luwu Utara	7322	2015	3,46	1078436396908
Luwu Timur	7325	2015	4,93	1185958025905
Toraja Utara	7326	2015	4,75	808925637397
Makassar	7371	2015	8,13	3062274393637
Parepare	7372	2015	8,39	784187002834
Palopo	7373	2015	7,87	761974080717
Kepulauan Selayar	7301	2016	7,36	879983643839
Bulukumba	7302	2016	6,32	1418879167318
Bantaeng	7303	2016	6,01	1072129932861
Jeneponto	7304	2016	6,48	1245329180304
Takalar	7305	2016	7,11	1293411312395
Gowa	7306	2016	7,41	1602546758748
Sinjai	7307	2016	0,87	1173641753778
Maros	7308	2016	4,77	1339212825383

Pangkajene dan Kepulauan	7309	2016	5,11	1401482667934
Barru	7310	2016	3,51	949079564250
Bone	7311	2016	6,40	2045111813069
Soppeng	7312	2016	8,21	1200412475086
Wajo	7313	2016	6,30	1539352459951
Sidenreng Rappang	7314	2016	9,53	1200899695872
Pinrang	7315	2016	8,30	1256526140444
Enrekang	7316	2016	9,01	1091335511816
Luwu	7317	2016	8,41	1481088366252
Tana Toraja	7318	2016	8,91	985264961450
Luwu Utara	7322	2016	7,01	1174311916019
Luwu Timur	7325	2016	-0,25	1375053994516
Toraja Utara	7326	2016	5,53	882261499073
Makassar	7371	2016	5,23	3278340966083
Parepare	7372	2016	3,77	986775184898
Palopo	7373	2016	7,17	1045044740835
Kepulauan Selayar	7301	2017	6,93	865699780880
Bulukumba	7302	2017	7,23	1490352730162
Bantaeng	7303	2017	6,90	894792466145
Jeneponto	7304	2017	5,10	1136700077474
Takalar	7305	2017	8,11	1079225087792
Gowa	7306	2017	8,29	1727962526455
Sinjai	7307	2017	8,11	1118056638912
Maros	7308	2017	7,69	1275149418885
Pangkajene dan Kepulauan	7309	2017	2,19	1338815258408
Barru	7310	2017	6,15	1006659430303
Bone	7311	2017	6,18	2240361363018
Soppeng	7312	2017	3,33	1147130284653
Wajo	7313	2017	10,11	1482722816774
Sidenreng Rappang	7314	2017	6,50	1298748117451
Pinrang	7315	2017	6,92	1224099334663
Enrekang	7316	2017	9,68	987600100370
Luwu	7317	2017	7,05	1283421687609
Tana Toraja	7318	2017	4,96	1147369655846
Luwu Utara	7322	2017	5,21	1225292194251
Luwu Timur	7325	2017	1,08	1416274050915
Toraja Utara	7326	2017	4,06	930420467071
Makassar	7371	2017	-1,17	3313623623887
Parepare	7372	2017	6,77	969858823855
Palopo	7373	2017	2,38	963855112821
Kepulauan Selayar	7301	2018	1,43	1023731052325
Bulukumba	7302	2018	9,63	1402274876733
Bantaeng	7303	2018	8,93	928619552741
Jeneponto	7304	2018	6,93	1186291155486

Takalar	7305	2018	7,87	1112294294807
Gowa	7306	2018	7,92	1827641077091
Sinjai	7307	2018	8,77	1131550893497
Maros	7308	2018	7,09	1380236935531
Pangkajene dan Kepulauan	7309	2018	5,02	1393344749057
Barru	7310	2018	4,65	992656086175
Bone	7311	2018	-0,59	2239705528354
Soppeng	7312	2018	5,54	1152398425007
Wajo	7313	2018	4,86	1428586566475
Sidenreng Rappang	7314	2018	3,28	1185907728917
Pinrang	7315	2018	7,71	1351140043260
Enrekang	7316	2018	8,51	1006485625085
Luwu	7317	2018	7,27	1333858528125
Tana Toraja	7318	2018	8,11	1122455378273
Luwu Utara	7322	2018	8,24	1287973455878
Luwu Timur	7325	2018	7,44	1520109440834
Toraja Utara	7326	2018	7,84	1027592287967
Makassar	7371	2018	6,91	3526081002897
Parepare	7372	2018	6,53	790230343853
Palopo	7373	2018	0,44	982922627366
Kepulauan Selayar	7301	2019	5,04	1009819703032
Bulukumba	7302	2019	4,53	1456915385877
Bantaeng	7303	2019	2,18	1029029082431
Jeneponto	7304	2019	8,08	1349769323821
Takalar	7305	2019	7,30	1146798573007
Gowa	7306	2019	5,84	1865956399756
Sinjai	7307	2019	6,00	1124207594621
Maros	7308	2019	6,90	1407314779828
Pangkajene dan Kepulauan	7309	2019	7,63	1379298976586
Barru	7310	2019	6,84	992414128555
Bone	7311	2019	3,26	2364888561192
Soppeng	7312	2019	5,43	1189972761946
Wajo	7313	2019	1,25	1552237925122
Sidenreng Rappang	7314	2019	6,36	1223443105182
Pinrang	7315	2019	3,71	1293600671573
Enrekang	7316	2019	2,33	1050617490496
Luwu	7317	2019	7,89	1449067071614
Tana Toraja	7318	2019	7,00	1165432763863
Luwu Utara	7322	2019	7,74	1377928248881
Luwu Timur	7325	2019	8,81	1520300617280
Toraja Utara	7326	2019	7,26	1092739951498
Makassar	7371	2019	7,88	3549123220749
Parepare	7372	2019	6,79	923316280348
Palopo	7373	2019	6,86	956451857030

Kepulauan Selayar	7301	2020	6,26	101003537165313
Bulukumba	7302	2020	1,30	142851172292259
Bantaeng	7303	2020	6,03	93561216231998
Jeneponto	7304	2020	5,69	126447743293400
Takalar	7305	2020	5,64	98777506832458
Gowa	7306	2020	7,78	188226163991855
Sinjai	7307	2020	8,58	119774539880742
Maros	7308	2020	7,19	146561706161803
Pangkajene dan Kepulauan	7309	2020	6,82	135593570335236
Barru	7310	2020	6,85	92394841830620
Bone	7311	2020	7,29	243129404593382
Soppeng	7312	2020	7,47	125186093916968
Wajo	7313	2020	7,89	142182117309680
Sidenreng Rappang	7314	2020	7,22	118411254353692
Pinrang	7315	2020	-0,28	132508258661600
Enrekang	7316	2020	5,19	110134712079553
Luwu	7317	2020	5,12	141904170688830
Tana Toraja	7318	2020	3,66	111224290483958
Luwu Utara	7322	2020	8,04	136353785308288
Luwu Timur	7325	2020	6,81	143696497878805
Toraja Utara	7326	2020	7,39	107821692029050
Makassar	7371	2020	8,82	296978600377268
Parepare	7372	2020	6,67	84298252323322
Palopo	7373	2020	7,49	94388579620319
Kepulauan Selayar	7301	2021	7,60	1023570529851
Bulukumba	7302	2021	8,39	1354504847519
Bantaeng	7303	2021	7,11	962752200377
Jeneponto	7304	2021	-0,59	1213711554594
Takalar	7305	2021	3,90	1127947965954
Gowa	7306	2021	4,54	1804781925587
Sinjai	7307	2021	5,12	1208396096076
Maros	7308	2021	-4,29	1368642733769
Pangkajene dan Kepulauan	7309	2021	5,62	1340077005415
Barru	7310	2021	6,30	889399107492
Bone	7311	2021	8,10	2270295926322
Soppeng	7312	2021	6,85	1115036766234
Wajo	7313	2021	1,58	1494156984184
Sidenreng Rappang	7314	2021	3,07	1199207773093
Pinrang	7315	2021	3,39	1293820146095
Enrekang	7316	2021	1,17	1114651028778
Luwu	7317	2021	1,46	1403953088257
Tana Toraja	7318	2021	-1,39	1049701515680
Luwu Utara	7322	2021	1,99	1267739128576
Luwu Timur	7325	2021	9,66	1502710316729

Toraja Utara	7326	2021	8,36	1017128624552
Makassar	7371	2021	9,45	3150496728994
Parepare	7372	2021	9,70	881374845533
Palopo	7373	2021	7,64	935475348254
Kepulauan Selayar	7301	2022	7,69	998714788060
Bulukumba	7302	2022	8,01	1346091167025
Bantaeng	7303	2022	8,22	1011212444331
Jeneponto	7304	2022	8,07	1197319756413
Takalar	7305	2022	7,56	1405198595285
Gowa	7306	2022	0,17	1884121196569
Sinjai	7307	2022	4,05	1091080720468
Maros	7308	2022	5,27	1413651866266
Pangkajene dan Kepulauan	7309	2022	3,94	1400977711404
Barru	7310	2022	10,36	893989998349
Bone	7311	2022	9,64	2558508572573
Soppeng	7312	2022	8,55	1355824385996
Wajo	7313	2022	7,40	1377717417941
Sidenreng Rappang	7314	2022	7,44	1167869461608
Pinrang	7315	2022	8,03	1329639820623
Enrekang	7316	2022	8,20	1262300840320
Luwu	7317	2022	8,42	1470015408696
Tana Toraja	7318	2022	8,79	1164206582539
Luwu Utara	7322	2022	-1,27	1449332937692
Luwu Timur	7325	2022	4,47	1666445074250
Toraja Utara	7326	2022	5,40	1002132622335
Makassar	7371	2022	5,31	3550062984209
Parepare	7372	2022	8,42	904426536280
Palopo	7373	2022	8,80	1015338138406
Kepulauan Selayar	7301	2023	7,95	1117382054846
Bulukumba	7302	2023	6,33	1574476303296
Bantaeng	7303	2023	6,28	1049193123325
Jeneponto	7304	2023	8,03	1151110662831
Takalar	7305	2023	6,97	1209103634318
Gowa	7306	2023	5,58	1820345165234
Sinjai	7307	2023	6,65	1143395342748
Maros	7308	2023	-0,08	1479688652614
Pangkajene dan Kepulauan	7309	2023	4,41	1465882399281
Barru	7310	2023	5,93	894459537584
Bone	7311	2023	3,88	2378819076319
Soppeng	7312	2023	7,90	1086222050906
Wajo	7313	2023	7,00	1439039074101
Sidenreng Rappang	7314	2023	8,02	1226087518000
Pinrang	7315	2023	7,06	1306882601612
Enrekang	7316	2023	6,48	1123681130655

Luwu	7317	2023	6,95	1499998049538
Tana Toraja	7318	2023	7,17	1147533420000
Luwu Utara	7322	2023	7,52	1251653725791
Luwu Timur	7325	2023	6,75	1763745393187
Toraja Utara	7326	2023	0,45	996995876134
Makassar	7371	2023	5,41	5648477147700
Parepare	7372	2023	5,83	924595555607
Palopo	7373	2023	4,34	1066894820311

Lampiran 2. Hasil Logaritma Natural

Kabupaten	Kode kabupaten	Tahun	Ln Pengeluaran Pemerintah
Kepulauan Selayar	7301	2011	268.271
Bulukumba	7302	2011	268.914
Bantaeng	7303	2011	271.103
Jeneponto	7304	2011	272.072
Takalar	7305	2011	273.446
Gowa	7306	2011	275.032
Sinjai	7307	2011	274.868
Maros	7308	2011	276.545
Pangkajene dan Kepulauan	7309	2011	276.408
Barru	7310	2011	322.462
Bone	7311	2011	276.543
Soppeng	7312	2011	276.297
Wajo	7313	2011	27.742
Sidenreng Rappang	7314	2011	273.146
Pinrang	7315	2011	273.215
Enrekang	7316	2011	275.092
Luwu	7317	2011	277.009
Tana Toraja	7318	2011	279.464
Luwu Utara	7322	2011	279.809
Luwu Timur	7325	2011	28.03.00
Toraja Utara	7326	2011	279.691
Makassar	7371	2011	280.073
Parepare	7372	2011	325.928
Palopo	7373	2011	279.345
Kepulauan Selayar	7301	2012	279.282
Bulukumba	7302	2012	280.849
Bantaeng	7303	2012	268.179
Jeneponto	7304	2012	268.727
Takalar	7305	2012	270.704
Gowa	7306	2012	271.572
Sinjai	7307	2012	273.766
Maros	7308	2012	277.007
Pangkajene dan Kepulauan	7309	2012	275.199
Barru	7310	2012	27.557
Bone	7311	2012	276.596
Soppeng	7312	2012	321.696
Wajo	7313	2012	275.931
Sidenreng Rappang	7314	2012	276.422
Pinrang	7315	2012	27.679
Enrekang	7316	2012	270.737
Luwu	7317	2012	270.613
Tana Toraja	7318	2012	272.862

Luwu Utara	7322	2012	274.006
Luwu Timur	7325	2012	276.469
Toraja Utara	7326	2012	278.504
Makassar	7371	2012	277.591
Parepare	7372	2012	278.018
Palopo	7373	2012	27.931
Kepulauan Selayar	7301	2013	324.709
Bulukumba	7302	2013	278.247
Bantaeng	7303	2013	278.111
Jeneponto	7304	2013	277.717
Takalar	7305	2013	270.131
Gowa	7306	2013	271.745
Sinjai	7307	2013	272.305
Maros	7308	2013	274.296
Pangkajene dan Kepulauan	7309	2013	275.947
Barru	7310	2013	278.883
Bone	7311	2013	277.073
Soppeng	7312	2013	277.374
Wajo	7313	2013	27.768
Sidenreng Rappang	7314	2013	322.239
Pinrang	7315	2013	277.514
Enrekang	7316	2013	279.712
Luwu	7317	2013	278.209
Tana Toraja	7318	2013	274.211
Luwu Utara	7322	2013	274.727
Luwu Timur	7325	2013	276.865
Toraja Utara	7326	2013	278.611
Makassar	7371	2013	280.177
Parepare	7372	2013	281.026
Palopo	7373	2013	28.178
Kepulauan Selayar	7301	2014	282.341
Bulukumba	7302	2014	282.548
Bantaeng	7303	2014	328.687
Jeneponto	7304	2014	282.215
Takalar	7305	2014	282.645
Gowa	7306	2014	28.23.00
Sinjai	7307	2014	269.918
Maros	7308	2014	270.322
Pangkajene dan Kepulauan	7309	2014	27.174
Barru	7310	2014	273.588
Bone	7311	2014	275.549
Soppeng	7312	2014	277.911
Wajo	7313	2014	277.426
Sidenreng Rappang	7314	2014	277.546

Pinrang	7315	2014	277.481
Enrekang	7316	2014	324.166
Luwu	7317	2014	278.203
Tana Toraja	7318	2014	277.182
Luwu Utara	7322	2014	27.765
Luwu Timur	7325	2014	270.823
Toraja Utara	7326	2014	272.272
Makassar	7371	2014	27.493
Parepare	7372	2014	275.973
Palopo	7373	2014	27.744
Kepulauan Selayar	7301	2015	279.231
Bulukumba	7302	2015	278.741
Bantaeng	7303	2015	279.533
Jeneponto	7304	2015	279.727
Takalar	7305	2015	326.185
Gowa	7306	2015	279.448
Sinjai	7307	2015	279.772
Maros	7308	2015	280.229
Pangkajene dan Kepulauan	7309	2015	27.02.00
Barru	7310	2015	27.339
Bone	7311	2015	27.483
Soppeng	7312	2015	276.905
Wajo	7313	2015	278.386
Sidenreng Rappang	7314	2015	279.685
Pinrang	7315	2015	279.228
Enrekang	7316	2015	279.627
Luwu	7317	2015	279.526
Tana Toraja	7318	2015	325.407
Luwu Utara	7322	2015	279.237
Luwu Timur	7325	2015	279.682
Toraja Utara	7326	2015	280.135
Makassar	7371	2015	269.728
Parepare	7372	2015	269.733
Palopo	7373	2015	270.707
Kepulauan Selayar	7301	2016	271.841
Bulukumba	7302	2016	275.073
Bantaeng	7303	2016	275.788
Jeneponto	7304	2016	276.377
Takalar	7305	2016	276.236
Gowa	7306	2016	276.234
Sinjai	7307	2016	321.571
Maros	7308	2016	275.138
Pangkajene dan Kepulauan	7309	2016	27.519
Barru	7310	2016	275.195

Bone	7311	2016	276.568
Soppeng	7312	2016	277.701
Wajo	7313	2016	279.432
Sidenreng Rappang	7314	2016	280.278
Pinrang	7315	2016	282.418
Enrekang	7316	2016	283.465
Luwu	7317	2016	284.377
Tana Toraja	7318	2016	284.374
Luwu Utara	7322	2016	284.918
Luwu Timur	7325	2016	331.246
Toraja Utara	7326	2016	284.509
Makassar	7371	2016	285.704
Parepare	7372	2016	284.976
Palopo	7373	2016	270.765
Kepulauan Selayar	7301	2017	271.485
Bulukumba	7302	2017	273.325
Bantaeng	7303	2017	274.587
Jeneponto	7304	2017	276.285
Takalar	7305	2017	278.137
Gowa	7306	2017	277.683
Sinjai	7307	2017	277.729
Maros	7308	2017	27.805
Pangkajene dan Kepulauan	7309	2017	324.608
Barru	7310	2017	277.399
Bone	7311	2017	279.354
Soppeng	7312	2017	277.137
Wajo	7313	2017	27.361
Sidenreng Rappang	7314	2017	274.897
Pinrang	7315	2017	275.786
Enrekang	7316	2017	276.959
Luwu	7317	2017	278.553
Tana Toraja	7318	2017	280.624
Luwu Utara	7322	2017	280.249
Luwu Timur	7325	2017	279.877
Toraja Utara	7326	2017	280.707
Makassar	7371	2017	325.881
Parepare	7372	2017	280.326
Palopo	7373	2017	279.515
Kepulauan Selayar	7301	2018	27.995
Bulukumba	7302	2018	271.128
Bantaeng	7303	2018	270.627
Jeneponto	7304	2018	273.281
Takalar	7305	2018	274.236
Gowa	7306	2018	276.746

Sinjai	7307	2018	278.141
Maros	7308	2018	278.924
Pangkajene dan Kepulauan	7309	2018	278.015
Barru	7310	2018	278.327
Bone	7311	2018	324.052
Soppeng	7312	2018	278.127
Wajo	7313	2018	277.862
Sidenreng Rappang	7314	2018	278.349
Pinrang	7315	2018	272.652
Enrekang	7316	2018	272.918
Luwu	7317	2018	274.253
Tana Toraja	7318	2018	275.775
Luwu Utara	7322	2018	277.756
Luwu Timur	7325	2018	278.594
Toraja Utara	7326	2018	278.332
Makassar	7371	2018	27.932
Parepare	7372	2018	278.885
Palopo	7373	2018	325.177
Kepulauan Selayar	7301	2019	278.886
Bulukumba	7302	2019	279.159
Bantaeng	7303	2019	278.987
Jeneponto	7304	2019	269.711
Takalar	7305	2019	269.907
Gowa	7306	2019	271.022
Sinjai	7307	2019	272.106
Maros	7308	2019	275.291
Pangkajene dan Kepulauan	7309	2019	277.184
Barru	7310	2019	276.185
Bone	7311	2019	276.375
Soppeng	7312	2019	276.804
Wajo	7313	2019	323.327
Sidenreng Rappang	7314	2019	277.396
Pinrang	7315	2019	27.864
Enrekang	7316	2019	277.476
Luwu	7317	2019	272.302
Tana Toraja	7318	2019	272.112
Luwu Utara	7322	2019	273.922
Luwu Timur	7325	2019	275.448
Toraja Utara	7326	2019	277.666
Makassar	7371	2019	280.238
Parepare	7372	2019	278.806
Palopo	7373	2019	279.191
Kepulauan Selayar	7301	2020	280.019
Bulukumba	7302	2020	325.862

Bantaeng	7303	2020	279.703
Jeneponto	7304	2020	280.163
Takalar	7305	2020	280.365
Gowa	7306	2020	270.556
Sinjai	7307	2020	271.086
Maros	7308	2020	271.078
Pangkajene dan Kepulauan	7309	2020	273.224
Barru	7310	2020	275.319
Bone	7311	2020	276.162
Soppeng	7312	2020	277.685
Wajo	7313	2020	277.465
Sidenreng Rappang	7314	2020	277.841
Pinrang	7315	2020	323.426
Enrekang	7316	2020	276.795
Luwu	7317	2020	277.831
Tana Toraja	7318	2020	277.686
Luwu Utara	7322	2020	272.018
Luwu Timur	7325	2020	272.585
Toraja Utara	7326	2020	273.077
Makassar	7371	2020	274.662
Parepare	7372	2020	277.065
Palopo	7373	2020	277.917
Kepulauan Selayar	7301	2021	278.342
Bulukumba	7302	2021	278.841
Bantaeng	7303	2021	279.516
Jeneponto	7304	2021	325.463
Takalar	7305	2021	278.683
Gowa	7306	2021	280.021
Sinjai	7307	2021	278.555
Maros	7308	2021	270.855
Pangkajene dan Kepulauan	7309	2021	272.398
Barru	7310	2021	273.223
Bone	7311	2021	275.746
Soppeng	7312	2021	278.016
Wajo	7313	2021	279.495
Sidenreng Rappang	7314	2021	27.979
Pinrang	7315	2021	280.498
Enrekang	7316	2021	280.499
Luwu	7317	2021	325.987
Tana Toraja	7318	2021	280.383
Luwu Utara	7322	2021	281.417
Luwu Timur	7325	2021	281.985
Toraja Utara	7326	2021	268.336
Makassar	7371	2021	270.044

Parepare	7372	2021	271.285
Palopo	7373	2021	272.782
Kepulauan Selayar	7301	2022	27.419
Bulukumba	7302	2022	275.058
Bantaeng	7303	2022	275.589
Jeneponto	7304	2022	276.582
Takalar	7305	2022	277.197
Gowa	7306	2022	323.115
Sinjai	7307	2022	27.648
Maros	7308	2022	276.332
Pangkajene dan Kepulauan	7309	2022	27.628
Barru	7310	2022	281.686
Bone	7311	2022	283.074
Soppeng	7312	2022	28.479
Wajo	7313	2022	285.889
Sidenreng Rappang	7314	2022	287.502
Pinrang	7315	2022	288.184
Enrekang	7316	2022	288.291
Luwu	7317	2022	288.912
Tana Toraja	7318	2022	288.977
Luwu Utara	7322	2022	333.247
Luwu Timur	7325	2022	287.786
Toraja Utara	7326	2022	28.898
Makassar	7371	2022	293.624
Parepare	7372	2022	269.696
Palopo	7373	2022	268.866
Kepulauan Selayar	7301	2023	270.611
Bulukumba	7302	2023	271.445
Bantaeng	7303	2023	273.879
Jeneponto	7304	2023	276.177
Takalar	7305	2023	276.004
Gowa	7306	2023	273.956
Sinjai	7307	2023	275.512
Maros	7308	2023	320.654
Pangkajene dan Kepulauan	7309	2023	275.047
Barru	7310	2023	275.306
Bone	7311	2023	275.526
Soppeng	7312	2023	269.347
Wajo	7313	2023	269.881
Sidenreng Rappang	7314	2023	270.886
Pinrang	7315	2023	271.979
Enrekang	7316	2023	273.592
Luwu	7317	2023	276.751
Tana Toraja	7318	2023	275.942

Luwu Utara	7322	2023	276.138
Luwu Timur	7325	2023	275.865
Toraja Utara	7326	2023	321.784
Makassar	7371	2023	275.643
Parepare	7372	2023	276.462
Palopo	7373	2023	276.958

Lampiran 3. Hasil Estimasi

1. Statistik Deskriptif Variabel

```
. summarize growth ln_expend
```

Variable	Obs	Mean	Std. dev.	Min	Max
growth	312	6.172147	2.864935	-10.87	15.45
ln_expend	312	28.05102	1.346399	26.81793	33.32468

2. Hasil Fixed Effect Model (FEM)

Pengaruh pengeluaran pemerintah terhadap pertumbuhan ekonomi

```
. xtreg growth_kap ln_expend, fe
```

```
Fixed-effects (within) regression              Number of obs   =       312
Group variable: kab                          Number of groups =        24

R-squared:                                    Obs per group:
  Within = 0.5566                               min =         13
  Between = 0.0033                             avg  =        13.0
  Overall = 0.5018                             max  =         13

corr(u_i, Xb) = -0.1461                       F(1,287)        =       360.24
                                                Prob > F        =        0.0000
```

growth_kap	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_expend	-3.164459	.1667271	-18.98	0.000	-3.492622	-2.836296
_cons	98.49378	4.681964	21.04	0.000	89.27844	107.7091
sigma_u	1.5980137					
sigma_e	3.8582883					
rho	.14642445	(fraction of variance due to u_i)				

```
F test that all u_i=0: F(23, 287) = 2.18          Prob > F = 0.0017
```

```
. reg growth_kap ln_expend i.kab
```

Source	SS	df	MS	Number of obs	=	312
Model	5802.41198	24	241.767166	F(24, 287)	=	16.24
Residual	4272.3936	287	14.8863889	Prob > F	=	0.0000
Total	10074.8056	311	32.3948732	R-squared	=	0.5759
				Adj R-squared	=	0.5405
				Root MSE	=	3.8583

growth_kap	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_expend	-3.164459	.1667271	-18.98	0.000	-3.492622	-2.836296
kab						
Bulukumba	.4870621	1.514919	0.32	0.748	-2.494698	3.468822
Bantaeng	.6117804	1.513346	0.40	0.686	-2.366884	3.590445
Jenepono	-1.837954	1.513757	-1.21	0.226	-4.817426	1.141519
Takalar	-.6093687	1.513651	-0.40	0.688	-3.588634	2.369896
Gowa	.4361473	1.516712	0.29	0.774	-2.549142	3.421436
Sinjai	-.7025095	1.513548	-0.46	0.643	-3.681571	2.276552
Maros	-.8788398	1.514441	-0.58	0.562	-3.85966	2.101981

Gowa		.3453217	.3570439	0.97	0.334	-.357435	1.048078
Sinjai		-.0577286	.3569455	-0.16	0.872	-.7602916	.6448344
Maros		-.0013495	.357248	-0.00	0.997	-.7045079	.7018088
7309		.1304823	.3570113	0.37	0.715	-.5722102	.8331748
Barru		-.2528001	.3570201	-0.71	0.479	-.9555099	.4499097
Bone		.8028864	.356789	2.25	0.025	.1006314	1.505141
Soppeng		.173898	.3567849	0.49	0.626	-.528349	.8761449
Wajo		.1994499	.3570103	0.56	0.577	-.5032406	.9021404
Sidrap		.0453949	.356897	0.13	0.899	-.6570726	.7478623
Pinrang		.0455627	.3570683	0.13	0.899	-.657242	.7483674
Enrekang		-.2633303	.3572727	-0.74	0.462	-.9665374	.4398767
Luwu		.3033209	.3567913	0.85	0.396	-.3989387	1.00558
Tana Toraja		-.2032653	.3572094	-0.57	0.570	-.9063478	.4998171
Luwu Utara		.1936495	.3568143	0.54	0.588	-.5086554	.8959543
Luwu Timur		-.5070025	.359908	-1.41	0.160	-1.215396	.2013914
Toraja Utara		.0813145	.3567904	0.23	0.820	-.6209433	.7835722
Makassar		1.194807	.3568408	3.35	0.001	.4924503	1.897164
Pare-pare		-.4991054	.3575585	-1.40	0.164	-1.202875	.2046642
Palopo		-.4825966	.357739	-1.35	0.178	-1.186721	.2215282
_cons		29.70501	.272212	109.12	0.000	29.16923	30.2408

3. Uji Chow

```
. testparm i.kab
```

```
( 1) 7302.kab = 0
( 2) 7303.kab = 0
( 3) 7304.kab = 0
( 4) 7305.kab = 0
( 5) 7306.kab = 0
( 6) 7307.kab = 0
( 7) 7308.kab = 0
( 8) 7309.kab = 0
( 9) 7310.kab = 0
(10) 7311.kab = 0
(11) 7312.kab = 0
(12) 7313.kab = 0
(13) 7314.kab = 0
(14) 7315.kab = 0
(15) 7316.kab = 0
(16) 7317.kab = 0
(17) 7318.kab = 0
(18) 7322.kab = 0
(19) 7325.kab = 0
(20) 7326.kab = 0
(21) 7371.kab = 0
(22) 7372.kab = 0
(23) 7373.kab = 0
```

```
F( 23, 287) = 2.28
Prob > F = 0.0009
```

4. Uji Hausman

```
. hausman fem rem
```

```
----- Coefficients -----
      |      (b)      (B)      (b-B)      sqrt(diag(V_b-V_B))
      |      fem      rem      Difference      Std. err.
-----+-----
```

```

growth_kap |   -0.1758834   -0.1704227   -0.0054607   .
-----
                b = Consistent under H0 and Ha; obtained from xtreg.
                B = Inconsistent under Ha, efficient under H0; obtained from xtreg.

Test of H0: Difference in coefficients not systematic

chi2(1) = (b-B)'[(V_b-V_B)^(-1)](b-B)
          = -56.27

Warning: chi2 < 0 ==> model fitted on these data
         fails to meet the asymptotic assumptions
         of the Hausman test; see suest for a
         generalized test.

```

```
. hausman FEM REM
```

```

                ---- Coefficients ----
                |      (b)      (B)      (b-B)      sqrt(diag(V_b-V_B))
                |      FEM      REM      Difference      Std. err.
-----+-----
ln_expend |   -3.164459   -3.035791   -0.1286677   .
-----
                b = Consistent under H0 and Ha; obtained from xtreg.
                B = Inconsistent under Ha, efficient under H0; obtained from xtreg.

```

```
Test of H0: Difference in coefficients not systematic
```

```
chi2(1) = (b-B)'[(V_b-V_B)^(-1)](b-B)
          = -77.31
```

```
Warning: chi2 < 0 ==> model fitted on these data
         fails to meet the asymptotic assumptions
         of the Hausman test; see suest for a
         generalized test.
```

5. Uji Stasioner Data Panel

```
xtunitroot ips growth_kap if kab
```

```
Im-Pesaran-Shin unit-root test for growth_kap
```

```
-----
H0: All panels contain unit roots      Number of panels =      24
Ha: Some panels are stationary         Number of periods =     13

AR parameter: Panel-specific          Asymptotics: T,N -> Infinity
Panel means: Included                  sequentially
Time trend:   Not included

```

```
ADF regressions: No lags included
```

```
-----
                Statistic      p-value      Fixed-N exact critical values
                |                |                |      1%      5%      10%
-----+-----
t-bar          -2.0212
t-tilde-bar    -1.7578
Z-t-tilde-bar  -2.9055      0.0018
-----
```

```
. xtunitroot ips ln_expend if kab
```

```
Im-Pesaran-Shin unit-root test for ln_expend
```

```

-----
H0: All panels contain unit roots           Number of panels =    24
Ha: Some panels are stationary              Number of periods =   13

AR parameter: Panel-specific                Asymptotics: T,N -> Infinity
Panel means: Included                       sequentially
Time trend: Not included

```

```

ADF regressions: No lags included

```

```

-----
                        Statistic      p-value      Fixed-N exact critical values
                        1%          5%          10%
-----
t-bar                   -3.1312
t-tilde-bar            -2.3333
Z-t-tilde-bar         -6.7161      0.0000
-----

```

6. Uji Kointegrasi

```

. xtointtest westerlund growth_kap ln_expend

```

```

Westerlund test for cointegration

```

```

-----
H0: No cointegration           Number of panels =    24
Ha: Some panels are cointegrated Number of periods =   13

```

```

Cointegrating vector: Panel specific
Panel means:          Included
Time trend:           Not included
AR parameter:         Panel specific

```

```

-----
                        Statistic      p-value
-----
Variance ratio          3.3055      0.0005
-----

```

```

.
end of do-file

```

```

. xtointtest westerlund ln_expend growth_kap

```

```

Westerlund test for cointegration

```

```

-----
H0: No cointegration           Number of panels =    24
Ha: Some panels are cointegrated Number of periods =   13

```

```

Cointegrating vector: Panel specific
Panel means:          Included
Time trend:           Not included
AR parameter:         Panel specific

```

```

-----
                        Statistic      p-value
-----
Variance ratio          -3.0605     0.0011
-----

```


7. Uji Kausalitas Granger

```
pvargranger
```

```
panel VAR-Granger causality Wald test
```

```
Ho: Excluded variable does not Granger-cause Equation variable
```

```
Ha: Excluded variable Granger-causes Equation variable
```

```
+-----+
| Equation \ Excluded |      chi2      df   Prob > chi2 |
+-----+
|growth_kap          |
|      ln_expend    |      0.550      1     0.459 |
|              ALL   |      0.550      1     0.459 |
+-----+
|ln_expend          |
|      growth_kap   |      0.634      1     0.426 |
|              ALL   |      0.634      1     0.426 |
+-----+
```

Lampiran 4. Biodata Penulis

Identitas Penulis

Nama : Muh. Fachrul

Tempat, Tanggal Lahir : Makassar, 10 Mei 2002

Jenis Kelamin : Laki-laki

Alamat Rumah : JL Sahabat III, Tamalanrea Indah, Kec.Tamalanrea

Nomor HP : 082349957128

E-Mail : dominikpilla1@gmail.com



Riwayat Pendidikan

Pendidikan Formal

- | | |
|---|-----------|
| 1. SDN 180 Karangko | 2008-2014 |
| 2. SMPN 1 Sinjai Tengah | 2014-2017 |
| 3. SMAN 13 Sinjai | 2017-2020 |
| 4. S1 Ilmu Ekonomi Universitas Hasanuddin | 2020-2024 |

Pendidikan Non Formal

1. Pelatihan Weekly Class Machine Learning – Artificial Intelligence 2021.
2. *Basic Learning Skills, Character & Creativity (BALANCE)*, Universitas Hasanuddin
3. Pengkaderan Awal Tingkat Senat (PATS) 2022, Senat Mahasiswa Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin.
4. Pengkaderan Awal Tingkat Ormaju (PATO) 2022 Himpunan Mahasiswa Jurusan Ilmu Ekonomi, Universitas Hasanuddin.
5. LK 1 Himpunan Mahasiswa Jurusan Ilmu Ekonomi, Universitas Hasanuddin

Pengalaman Organisasi

1. Anggota Unit Kegiatan Mahasiswa Pencak Silat Universitas Hasanuddin
2. Anggota Google Developer Student Club Universitas Hasanuddin
3. Anggota Departemen Sumber Daya Manusia Himpunan Mahasiswa Jurusan Ilmu Ekonomi Universitas Hasanuddin Periode 2022.
4. Anggota Kejayaan Mahasiswa Nusantara Kota Makassar

Makassar, 23 Juli 2024

Muh. Fachrul