

## **BAB V**

### **PENUTUP**

#### **5.1. Kesimpulan**

Berdasarkan dari hasil dan pembahasan yang sudah dijelaskan pada Bab IV, maka disimpulkan sebagai berikut :

1. Variabel Jumlah Penduduk berpengaruh positif terhadap Tingkat Pengangguran di Pulau Jawa tahun 2015 – tahun 2022;
2. Variabel Inflasi tidak memiliki pengaruh terhadap Tingkat Pengangguran di Pulau Jawa tahun 2015 – tahun 2022.

#### **5.2. Saran**

Saran yang dapat diberikan penulis dalam penelitian yang sudah dilakukan ini adalah sebagai berikut :

1. Pemerintah, berdasarkan hasil yang menunjukkan bahwa semakin bertambah jumlah penduduk akan memberikan peningkatan terhadap tingkat pengangguran di Pulau Jawa dengan demikian pemerintah diharapkan melakukan pengendalian terhadap jumlah penduduk yang ada di Pulau Jawa sehingga tidak semakin tinggi tingkat pengangguran yang terjadi.
2. Pembaca, dapat menjadikan topik ini sebagai referensi untuk melakukan penelitian dengan menambah variabel dan tahun sehingga dapat memberikan hasil yang baru serta berbeda dari penelitian ini;

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## LAMPIRAN

### Lampiran 1 Hasil Estimasi *Common Effect Model (CEM)*

Dependent Variable: Y  
Method: Panel Least Squares  
Date: 12/12/23 Time: 08:55  
Sample: 2015 2022  
Periods included: 8  
Cross-sections included: 93  
Total panel (unbalanced) observations: 742

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6.037600	0.261904	23.05276	0.0000
X1	2.73E-06	3.41E-07	7.988414	0.0000
X2	-3.54E-06	6.29E-07	-5.628990	0.0000
X3	-0.332465	0.050040	-6.643939	0.0000
R-squared	0.132669	Mean dependent var		5.586604
Adjusted R-squared	0.129144	S.D. dependent var		2.517022
S.E. of regression	2.348877	Akaike info criterion		4.551128
Sum squared resid	4071.710	Schwarz criterion		4.575976
Log likelihood	-1684.468	Hannan-Quinn criter.		4.560707
F-statistic	37.62890	Durbin-Watson stat		0.539435
Prob(F-statistic)	0.000000			

## Lampiran 2 Hasil Estimasi *Fixed Effect Model (FEM)*

Dependent Variable: Y  
 Method: Panel Least Squares  
 Date: 12/12/23 Time: 08:56  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 742

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.014608	0.865588	3.482730	0.0005
X1	2.27E-06	7.67E-07	2.955757	0.0032
X2	2.87E-07	3.80E-07	0.755798	0.4500
X3	-0.016619	0.031870	-0.521465	0.6022

### Effects Specification

#### Cross-section fixed (dummy variables)

R-squared	0.781441	Mean dependent var	5.586604
Adjusted R-squared	0.749300	S.D. dependent var	2.517022
S.E. of regression	1.260271	Akaike info criterion	3.420742
Sum squared resid	1026.032	Schwarz criterion	4.017100
Log likelihood	-1173.095	Hannan-Quinn criter.	3.650646
F-statistic	24.31289	Durbin-Watson stat	1.617944
Prob(F-statistic)	0.000000		

### Lampiran 3 Hasil Estimasi *Random Effect Model (REM)*

Dependent Variable: Y  
 Method: Panel EGLS (Cross-section random effects)  
 Date: 12/12/23 Time: 09:08  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 742  
 Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.666386	0.330040	14.13885	0.0000
X1	1.14E-06	2.90E-07	3.939023	0.0001
X2	-2.24E-07	3.67E-07	-0.611162	0.5413
X3	-0.046922	0.031283	-1.499928	0.1341

Effects Specification		S.D.	Rho
Cross-section random		1.517257	0.5917
Idiosyncratic random		1.260271	0.4083

Weighted Statistics			
R-squared	0.025101	Mean dependent var	1.576627
Adjusted R-squared	0.021138	S.D. dependent var	1.342246
S.E. of regression	1.327162	Sum squared resid	1299.884
F-statistic	6.333771	Durbin-Watson stat	1.266458
Prob(F-statistic)	0.000305		

Unweighted Statistics			
R-squared	0.072184	Mean dependent var	5.586604
Sum squared resid	4355.660	Durbin-Watson stat	0.377956

## Lampiran 4 Uji Chow

Redundant Fixed Effects Tests

Equation: Untitled

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	20.843373	(92,646)	0.0000
Cross-section Chi-square	1022.746485	92	0.0000

Cross-section fixed effects test equation:

Dependent Variable: Y

Method: Panel Least Squares

Date: 12/12/23 Time: 09:06

Sample: 2015 2022

Periods included: 8

Cross-sections included: 93

Total panel (unbalanced) observations: 742

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6.037600	0.261904	23.05276	0.0000
X1	2.73E-06	3.41E-07	7.988414	0.0000
X2	-3.54E-06	6.29E-07	-5.628990	0.0000
X3	-0.332465	0.050040	-6.643939	0.0000
R-squared	0.132669	Mean dependent var		5.586604
Adjusted R-squared	0.129144	S.D. dependent var		2.517022
S.E. of regression	2.348877	Akaike info criterion		4.551128
Sum squared resid	4071.710	Schwarz criterion		4.575976
Log likelihood	-1684.468	Hannan-Quinn criter.		4.560707
F-statistic	37.62890	Durbin-Watson stat		0.539435
Prob(F-statistic)	0.000000			



## Lampiran 5 Uji Hausman

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	83.216204	3	0.0000

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
X1	0.000002	0.000001	0.000000	0.1138
X2	0.000000	-0.000000	0.000000	0.0000
X3	-0.016619	-0.046922	0.000037	0.0000

Cross-section random effects test equation:

Dependent Variable: Y

Method: Panel Least Squares

Date: 12/12/23 Time: 09:09

Sample: 2015 2022

Periods included: 8

Cross-sections included: 93

Total panel (unbalanced) observations: 742

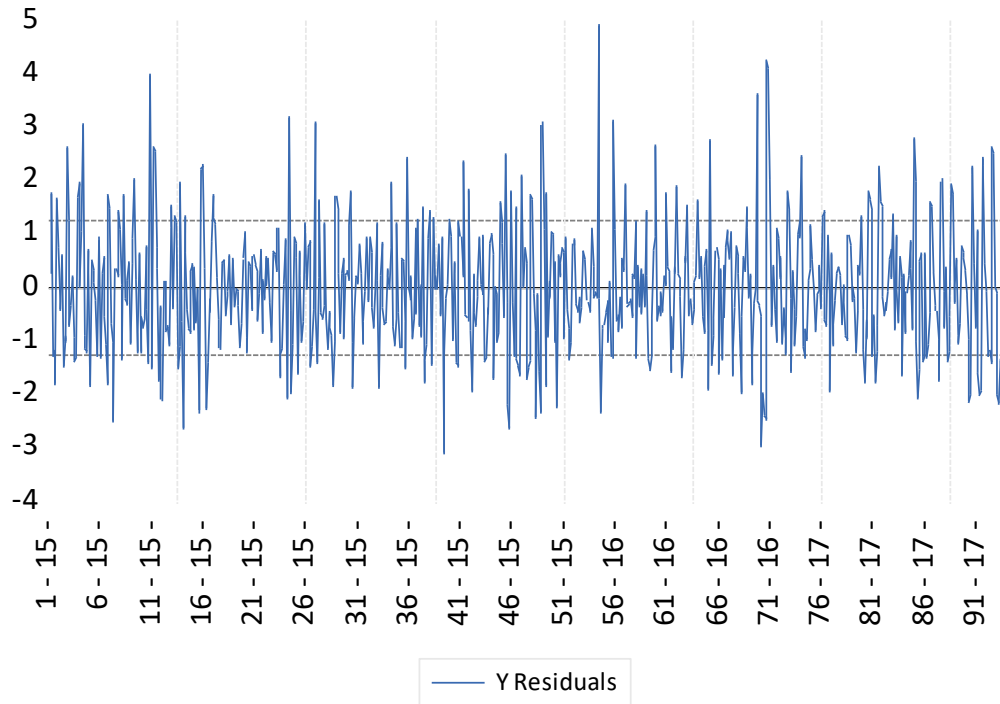
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.014608	0.865588	3.482730	0.0005
X1	2.27E-06	7.67E-07	2.955757	0.0032
X2	2.87E-07	3.80E-07	0.755798	0.4500
X3	-0.016619	0.031870	-0.521465	0.6022

### Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.781441	Mean dependent var	5.586604
Adjusted R-squared	0.749300	S.D. dependent var	2.517022
S.E. of regression	1.260271	Akaike info criterion	3.420742
Sum squared resid	1026.032	Schwarz criterion	4.017100
Log likelihood	-1173.095	Hannan-Quinn criter.	3.650646
F-statistic	24.31289	Durbin-Watson stat	1.617944
Prob(F-statistic)	0.000000		

### Lampiran 6 Uji Heteroskedastisitas



### Lampiran 7 Uji Multikolinearitas

	X1	X2	X3
X1	1.000000	0.921011	0.052710
X2	0.921011	1.000000	-0.025936
X3	0.052710	-0.025936	1.000000

### Lampiran 8 Hasil Estimasi *Common Effect Model (CEM)*

Dependent Variable: Y  
 Method: Panel Least Squares  
 Date: 12/16/23 Time: 21:35  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 743

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.684938	0.258946	21.95415	0.0000
X1	9.50E-07	1.33E-07	7.142178	0.0000
X3	-0.278895	0.050075	-5.569542	0.0000
R-squared	0.095415	Mean dependent var		5.587227
Adjusted R-squared	0.092970	S.D. dependent var		2.515383
S.E. of regression	2.395603	Akaike info criterion		4.589177
Sum squared resid	4246.797	Schwarz criterion		4.607793
Log likelihood	-1701.879	Hannan-Quinn criter.		4.596353
F-statistic	39.02734	Durbin-Watson stat		0.416705

Prob(F-statistic) 0.000000

### Lampiran 9 Hasil Estimasi *Fixed Effect Model (FEM)*

Dependent Variable: Y  
 Method: Panel Least Squares  
 Date: 12/16/23 Time: 21:36  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 743

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.218833	0.830895	3.873938	0.0001
X1	2.26E-06	7.67E-07	2.951344	0.0033
X3	-0.024680	0.031345	-0.787345	0.4314

Effects Specification

Cross-section fixed (dummy variables)				
R-squared	0.780364	Mean dependent var	5.587227	
Adjusted R-squared	0.748504	S.D. dependent var	2.515383	
S.E. of regression	1.261449	Akaike info criterion	3.421315	
Sum squared resid	1031.133	Schwarz criterion	4.010838	
Log likelihood	-1176.018	Hannan-Quinn criter.	3.648570	
F-statistic	24.49300	Durbin-Watson stat	1.613578	
Prob(F-statistic)	0.000000			

### Lampiran 10 Hasil Estimasi *Random Effect Model (REM)*

Dependent Variable: Y  
 Method: Panel EGLS (Cross-section random effects)  
 Date: 12/16/23 Time: 21:37  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 743  
 Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.545414	0.389919	11.65733	0.0000
X1	1.10E-06	2.89E-07	3.810965	0.0001
X3	-0.036984	0.030828	-1.199691	0.2306

Effects Specification

	S.D.	Rho
Cross-section random	1.926490	0.6999
Idiosyncratic random	1.261449	0.3001

Weighted Statistics			
R-squared	0.019984	Mean dependent var	1.261659
Adjusted R-squared	0.017335	S.D. dependent var	1.289515
S.E. of regression	1.277492	Sum squared resid	1207.670
F-statistic	7.544693	Durbin-Watson stat	1.362074
Prob(F-statistic)	0.000571		
Unweighted Statistics			
R-squared	0.064531	Mean dependent var	5.587227
Sum squared resid	4391.788	Durbin-Watson stat	0.374548

### Lampiran 11 Hasil Uji Chow

Redundant Fixed Effects Tests  
Equation: Untitled  
Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	21.965598	(92,648)	0.0000
Cross-section Chi-square	1051.721432	92	0.0000

Cross-section fixed effects test equation:  
Dependent Variable: Y  
Method: Panel Least Squares  
Date: 12/16/23 Time: 21:36  
Sample: 2015 2022  
Periods included: 8  
Cross-sections included: 93  
Total panel (unbalanced) observations: 743

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.684938	0.258946	21.95415	0.0000
X1	9.50E-07	1.33E-07	7.142178	0.0000
X3	-0.278895	0.050075	-5.569542	0.0000

R-squared	0.095415	Mean dependent var	5.587227
Adjusted R-squared	0.092970	S.D. dependent var	2.515383
S.E. of regression	2.395603	Akaike info criterion	4.589177
Sum squared resid	4246.797	Schwarz criterion	4.607793
Log likelihood	-1701.879	Hannan-Quinn criter.	4.596353
F-statistic	39.02734	Durbin-Watson stat	0.416705
Prob(F-statistic)	0.000000		

### Lampiran 12 Uji Hausman

Correlated Random Effects - Hausman Test  
Equation: Untitled  
Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	20.387242	2	0.0000

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
X1	0.000002	0.000001	0.000000	0.1015
X3	-0.024680	-0.036984	0.000032	0.0301

Cross-section random effects test equation:

Dependent Variable: Y

Method: Panel Least Squares

Date: 12/16/23 Time: 21:38

Sample: 2015 2022

Periods included: 8

Cross-sections included: 93

Total panel (unbalanced) observations: 743

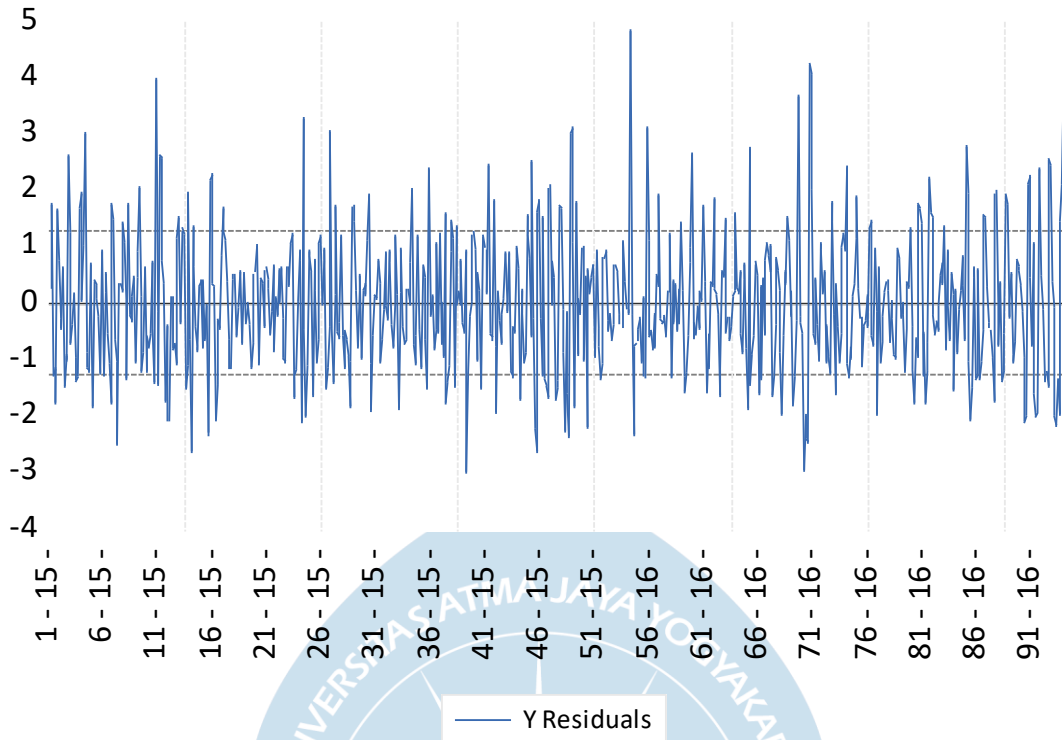
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.218833	0.830895	3.873938	0.0001
X1	2.26E-06	7.67E-07	2.951344	0.0033
X3	-0.024680	0.031345	-0.787345	0.4314

#### Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.780364	Mean dependent var	5.587227
Adjusted R-squared	0.748504	S.D. dependent var	2.515383
S.E. of regression	1.261449	Akaike info criterion	3.421315
Sum squared resid	1031.133	Schwarz criterion	4.010838
Log likelihood	-1176.018	Hannan-Quinn criter.	3.648570
F-statistic	24.49300	Durbin-Watson stat	1.613578
Prob(F-statistic)	0.000000		

**Lampiran 13 Uji Heteroskedastisitas**



**Lampiran 14 Uji Multikolinieritas**

	X1	X3
X1	1.000000	0.053405
X3	0.053405	1.000000

**Lampiran 15 Uji F, Uji Parsial (uji t), dan R<sup>2</sup>**

Dependent Variable: Y  
 Method: Panel Least Squares  
 Date: 12/12/23 Time: 10:42  
 Sample: 2015 2022  
 Periods included: 8  
 Cross-sections included: 93  
 Total panel (unbalanced) observations: 743

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.218833	0.830895	3.873938	0.0001
X1	2.26E-06	7.67E-07	2.951344	0.0033
X3	-0.024680	0.031345	-0.787345	0.4314

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.780364	Mean dependent var	5.587227
Adjusted R-squared	0.748504	S.D. dependent var	2.515383
S.E. of regression	1.261449	Akaike info criterion	3.421315
Sum squared resid	1031.133	Schwarz criterion	4.010838
Log likelihood	-1176.018	Hannan-Quinn criter.	3.648570
F-statistic	24.49300	Durbin-Watson stat	1.613578
Prob(F-statistic)	0.000000		

### Lampiran 16 Data Regresi

Objek	Tahun	Y	X1	X2	X3
1	2015	11.08	1.047.922	450.925	2.7
1	2016	12.59	1.064.687	532.347	3.6
1	2017	9.57	1.081.009	495.824	4.59
1	2018	9.74	1.096.828	519.693	3.69
1	2019	9.16	1.112.081	531.597	3.02
1	2020	12.68	1.126.927	514.323	2.02
1	2021	11.79	1.141.773	529.003	1.93
1	2022	10.78	1.156.619	556.541	1.93
2	2015	9.06	318.117	147.065	2.2
2	2016	10.12	321.097	160.551	2.57
2	2017	8	323.788	142.285	4.1
2	2018	8.57	326.282	146.230	2.95
2	2019	8.49	328.680	154.907	2.33
2	2020	12.17	330.691	139.657	1.52
2	2021	10.78	332.702	143.914	1.71
2	2022	8.83	334.713	159.618	1.71
3	2015	9.02	2.481.469	1.192.521	3.93
3	2016	9.6	2.490.622	1.245.314	2.93
3	2017	8.44	2.497.938	1.219.398	3.46
3	2018	8.05	2.503.708	1.232.747	3.76
3	2019	8.18	2.507.888	1.326.370	2.78
3	2020	11.19	2.510.103	1.314.930	1.76
3	2021	11.46	2.512.318	1.339.128	1.65
3	2022	9.55	2.514.533	1.435.635	1.65
4	2015	11.28	307.494	142.946	1.56
4	2016	13.27	310.486	155.245	1.87
4	2017	9.29	313.325	156.814	4.36
4	2018	9.07	316.277	163.184	2.8
4	2019	9.04	319.312	152.379	2

4	2020	10.97	322.322	156.500	1.18
4	2021	10.53	325.332	155.798	1.81
4	2022	8.42	328.342	163.639	1.81
5	2015	9.36	2.714.825	1.193.672	2.22
5	2016	9.4	2.787.205	1.393.605	2.47
5	2017	9.32	2.859.630	1.396.946	3.01
5	2018	9.14	2.931.897	1.452.009	4.23
5	2019	8.3	3.003.923	1.496.488	4.28
5	2020	10.68	3.075.690	1.509.841	2.43
5	2021	10.88	3.147.457	1.544.421	1.61
5	2022	8.81	3.219.224	1.592.545	1.61
6	2015	7.48	2.106.102	969.502	1.87
6	2016	7.96	2.179.813	1.089.909	2.6
6	2017	7	2.254.513	1.085.426	3.93
6	2018	6.66	2.330.333	1.096.952	2.86
6	2019	6.12	2.406.826	1.176.722	3.29
6	2020	9.87	2.484.186	1.195.632	1.67
6	2021	9.76	2.561.546	1.207.111	1.81
6	2022	7.82	2.638.906	1.258.739	1.81
7	2015	5.46	657.477	318.813	3.53
7	2016	4.03	659.606	329.806	2.75
7	2017	6.89	661.404	311.874	3.88
7	2018	6.89	662.723	316.261	2.3
7	2019	6.78	663.517	333.149	1.72
7	2020	7.99	663.986	343.285	1.83
7	2021	7.66	664.455	342.585	1.17
7	2022	6.62	664.924	347.063	1.17
8	2015	7.03	1.194.911	491.031	8.48
8	2016	10.22	1.200.512	600.262	5.57
8	2017	8.3	1.205.203	501.045	2.77
8	2018	8.19	1.209.011	537.661	3.47
8	2019	8.67	1.211.909	529.902	3.55
8	2020	9.15	1.272.687	529.562	2.85
8	2021	7.7	1.288.314	552.301	1.37
8	2022	9.24	1.307.090	550.932	2.16
9	2015	9.57	1.269.812	560.384	7.01
9	2016	10.74	1.279.412	639.712	5.97
9	2017	8.88	1.288.103	581.370	3.29
9	2018	7.57	1.295.810	622.979	3.23
9	2019	7.96	1.302.608	601.147	3.3
9	2020	9.63	1.386.793	659.906	3.03



9	2021	7.86	1.407.857	635.562	1.38
9	2022	8.55	1.433.853	635.390	1.99
10	2015	8.45	3.370.594	1.513.501	7.46
10	2016	9	3.477.495	1.738.753	5.7
10	2017	10.57	3.584.770	1.651.753	3.45
10	2018	9.63	3.692.693	1.684.013	3.55
10	2019	8.92	3.800.787	1.812.925	2.97
10	2020	13.06	3.245.619	1.836.726	2.99
10	2021	9.06	3.293.533	1.842.009	1.39
10	2022	7.88	3.352.472	1.978.358	3
11	2015	14.76	1.474.301	620.527	8.02
11	2016	14.8	1.484.502	742.255	4.28
11	2017	13	1.493.591	628.101	4.18
11	2018	12.63	1.501.501	669.211	3.8
11	2019	10.58	1.508.397	692.076	3.14
11	2020	12.22	1.622.630	699.858	2.99
11	2021	10.58	1.647.790	709.936	1.31
11	2022	10.61	1.678.915	719.645	3.82
12	2015	7.81	2.047.105	992.091	8.66
12	2016	8	2.093.706	1.046.857	3.84
12	2017	7.16	2.139.891	1.046.999	4.42
12	2018	7.39	2.185.304	1.050.074	3.35
12	2019	7.14	2.229.901	1.104.890	3.54
12	2020	8.63	1.895.486	1.127.599	2.66
12	2021	9.07	1.911.914	1.141.720	1.49
12	2022	7.16	1.930.556	1.191.760	3.77
13	2015	11.83	412.106	186.664	8.91
13	2016	12	418.705	209.356	3.78
13	2017	11.88	425.103	185.832	4.6
13	2018	9.21	431.305	201.579	3
13	2019	9.64	437.205	201.948	3.72
13	2020	12.69	434.896	204.675	2.5
13	2021	10.13	441.761	206.507	1.15
13	2022	8.1	450.271	230.351	4.62
14	2015	10.03	643.205	284.893	8.94
14	2016	9.49	655.004	327.505	3.38
14	2017	8.43	666.600	293.196	4.22
14	2018	8.1	677.804	303.803	3.47
14	2019	8.07	688.603	311.086	3.53
14	2020	9.26	692.101	322.484	2.01
14	2021	9.41	704.618	320.184	1.24

14	2022	8.17	720.362	339.958	4.88
15	2015	6.92	1.543.209	685.752	8.74
15	2016	6.13	1.593.812	796.909	2.58
15	2017	6.83	1.644.899	708.667	4.28
15	2018	4.67	1.696.308	776.658	3.68
15	2019	4.78	1.747.906	788.305	3.76
15	2020	8.48	1.354.350	832.423	1.52
15	2021	8.6	1.365.688	852.435	1.46
15	2022	6.59	1.378.466	817.237	4.58
16	2015	8.01	1.694.726	809.796	2.63
16	2016	5.68	1.703.390	1.708.390	2.77
16	2017	6.3	1.711.627	841.406	4.41
16	2018	7.49	1.719.504	807.502	3.21
16	2019	7.24	1.727.098	849.621	6.87
16	2020	9.1	1.944.857	888.218	5.27
16	2021	9.97	1.963.824	830.043	5.65
16	2022	9.62	1.988.622	872.454	4.63
17	2015	6.37	1.635.909	765.216	2.52
17	2016	5.65	1.650.625	1.655.625	2.42
17	2017	4.62	1.665.025	823.279	3.91
17	2018	4.15	1.679.124	871.449	2.98
17	2019	4.17	1.693.006	876.517	4.73
17	2020	6	1.776.918	877.555	3.4
17	2021	6.05	1.789.630	865.982	6.04
17	2022	6.05	1.806.013	870.702	5.83
18	2015	4.84	898.376	473.482	1.62
18	2016	5.37	907.507	912.507	2.39
18	2017	5.33	916.427	489.947	3.72
18	2018	6.02	925.193	492.403	3.01
18	2019	4.73	933.989	481.578	4.09
18	2020	6.1	998.561	500.261	4.47
18	2021	6.05	1.007.794	503.682	7.82
18	2022	5.23	1.019.840	538.507	6.35
19	2015	5.05	901.826	483.125	2.97
19	2016	5.13	907.410	912.410	2.87
19	2017	4.72	912.917	487.457	3.67
19	2018	3.99	918.219	502.437	3.04
19	2019	4.44	923.192	493.718	4.55
19	2020	5.86	1.017.767	495.167	4.73
19	2021	5.86	1.026.866	499.741	7.13
19	2022	6.38	1.038.718	520.962	5.37

20	2015	4.14	1.184.882	614.356	2.91
20	2016	4.06	1.188.603	1.193.603	2.71
20	2017	5.58	1.192.007	593.658	3.25
20	2018	5.48	1.195.092	591.163	3.01
20	2019	4.69	1.197.982	621.725	4.64
20	2020	6.07	1.350.438	633.687	4.52
20	2021	6.03	1.361.913	620.127	8.36
20	2022	5.92	1.376.825	658.337	5.01
21	2015	4.01	710.386	378.607	3.45
21	2016	3.25	712.686	717.686	2.66
21	2017	3.64	714.574	355.356	4.29
21	2018	4.43	716.477	372.723	4.35
21	2019	2.91	718.316	374.507	3.66
21	2020	4.04	769.880	394.887	2.52
21	2021	3.59	773.588	415.299	7.56
21	2022	4.45	778.257	412.129	5.98
22	2015	4.47	777.122	389.572	2.71
22	2016	5.1	780.793	785.793	2.97
22	2017	4.18	784.207	422.200	3.21
22	2018	3.5	787.384	428.842	3.55
22	2019	3.43	790.504	429.958	3.84
22	2020	5.37	879.124	428.178	2.66
22	2021	5.26	886.613	428.053	6.06
22	2022	5.01	896.346	453.724	4.01
23	2015	5.16	1.245.496	644.755	3.6
23	2016	5.34	1.257.123	1.262.123	2.86
23	2017	2.44	1.268.396	722.295	3.47
23	2018	2.89	1.279.625	705.833	2.66
23	2019	3.07	1.290.591	746.811	2.59
23	2020	4.27	1.299.859	774.364	2.64
23	2021	5.03	1.305.512	774.589	8.25
23	2022	4.97	1.312.573	822.090	3.83
24	2015	2.03	963.690	544.996	2.58
24	2016	7.45	969.325	974.325	2.65
24	2017	3.67	974.579	523.899	3.08
24	2018	2.18	979.799	549.361	2.19
24	2019	3.09	984.807	556.985	3.45
24	2020	5.28	1.062.713	580.232	3.35
24	2021	5.09	1.070.247	589.941	7.34
24	2022	4.92	1.079.952	592.054	3.05
25	2015	2.51	1.158.795	644.722	2.57

25	2016	4.95	1.163.218	1.168.218	2.31
25	2017	4.35	1.167.401	613.345	3.12
25	2018	3.14	1.171.411	622.450	2.39
25	2019	3.54	1.174.986	644.689	3.65
25	2020	5.46	1.260.506	641.245	1.67
25	2021	5.48	1.267.272	631.245	7.9
25	2022	4.31	1.275.850	651.177	5.3
26	2015	4.52	864.207	442.665	2.69
26	2016	4.75	871.397	876.397	2.34
26	2017	2.27	878.374	460.717	3.4
26	2018	2.72	885.205	476.463	2.31
26	2019	3.39	891.912	481.720	4.22
26	2020	6.93	907.587	488.250	2.63
26	2021	3.32	911.603	493.258	6.67
26	2022	2.47	916.627	487.662	2.59
27	2015	3.07	949.017	533.914	2.13
27	2016	4.6	951.975	956.975	2.94
27	2017	2.38	954.706	544.557	2.32
27	2018	2.28	957.106	580.401	2.63
27	2019	2.55	959.492	542.162	3.43
27	2020	4.27	1.043.177	582.733	3
27	2021	2.43	1.049.292	573.025	6.66
27	2022	1.95	1.057.087	589.581	2.89
28	2015	3.6	856.198	452.900	2.4
28	2016	3.45	864.021	869.021	1.93
28	2017	3.17	871.596	472.241	3.15
28	2018	2.28	879.078	482.317	2.48
28	2019	3.12	886.519	486.110	3.29
28	2020	5.96	931.963	515.145	3.31
28	2021	5.89	938.808	517.787	7.26
28	2022	5.7	947.642	505.685	2.96
29	2015	4.51	879.027	490.389	3.05
29	2016	3.54	882.090	887.090	2.49
29	2017	4.55	885.122	488.876	3.18
29	2018	4.83	887.889	467.560	2.49
29	2019	3.32	890.518	473.844	3.74
29	2020	4.75	976.951	481.762	2.86
29	2021	4.76	983.641	507.752	6.77
29	2022	4.69	992.243	493.619	2.82
30	2015	5.22	1.351.429	728.775	3.31
30	2016	6.04	1.358.404	1.363.404	2.41

30	2017	3.02	1.365.207	747.105	4.05
30	2018	2.22	1.371.610	743.750	2.89
30	2019	3.54	1.377.788	733.316	4.48
30	2020	4.5	1.453.526	744.405	1.86
30	2021	4.38	1.460.873	783.035	7.45
30	2022	4.4	1.470.150	779.137	4.26
31	2015	4.68	852.108	484.848	2.85
31	2016	4.25	855.573	860.573	2.14
31	2017	2.85	858.865	468.609	2.98
31	2018	3.3	862.110	493.147	2.78
31	2019	3.82	865.013	466.149	3.55
31	2020	4.89	884.333	492.071	2.26
31	2021	3.81	886.147	485.525	7.17
31	2022	3.7	888.224	519.616	2.91
32	2015	4.51	619.173	340.675	2.66
32	2016	4.3	624.096	629.096	1.75
32	2017	3.19	628.922	346.570	3.31
32	2018	2.83	633.584	336.905	2.53
32	2019	3.6	638.188	333.072	4.28
32	2020	4.83	645.333	330.783	2.73
32	2021	3.67	647.766	362.020	6.61
32	2022	1.76	650.770	382.337	3.09
33	2015	4.43	1.232.889	660.007	3.23
33	2016	5.23	1.239.989	1.244.989	2.31
33	2017	3.83	1.246.691	648.233	3.51
33	2018	3.57	1.253.299	656.788	2.77
33	2019	3.64	1.259.590	655.111	3.92
33	2020	4.74	1.324.188	637.950	2.3
33	2021	4.6	1.330.983	694.427	6.36
33	2022	4.45	1.339.572	724.747	3.05
34	2015	5.04	831.303	449.018	3.28
34	2016	6.37	841.499	846.499	2.32
34	2017	3.56	851.478	469.843	4.17
34	2018	3.28	861.430	484.031	3.11
34	2019	3.8	871.311	488.718	4.77
34	2020	5.53	849.184	512.319	3.34
34	2021	3.77	852.443	521.094	7.65
34	2022	3.21	856.472	501.120	3
35	2015	3.12	1.188.289	596.921	4.57
35	2016	5.03	1.205.800	1.210.800	3.45
35	2017	4.84	1.223.198	640.393	2.83

35	2018	3.75	1.240.600	649.142	4.2
35	2019	2.92	1.257.912	654.373	4.52
35	2020	6.7	1.184.947	679.907	3.59
35	2021	4.23	1.188.510	687.284	6.24
35	2022	4.1	1.192.811	700.156	2.83
36	2015	6.02	1.117.905	545.910	2.8
36	2016	5.09	1.129.298	1.134.298	2.27
36	2017	5.17	1.014.198	1.019.198	3.67
36	2018	7.03	1.151.796	614.758	2.73
36	2019	5.42	1.162.805	594.113	4.1
36	2020	7.31	1.203.956	619.892	3.49
36	2021	5.28	1.212.377	595.111	6.87
36	2022	6.11	1.223.217	608.754	3.1
37	2015	2.57	1.000.887	550.015	2.85
37	2016	5.17	1.014.198	1.019.198	2.39
37	2017	1.78	1.027.489	607.096	3.67
37	2018	2.25	1.040.629	589.155	2.8
37	2019	2.54	1.053.786	616.445	4.56
37	2020	4.57	1.053.094	629.038	3.29
37	2021	5.02	1.059.844	630.040	7.07
37	2022	4.81	1.068.492	650.497	3.18
38	2015	1.5	745.825	424.768	2.74
38	2016	4.38	752.486	757.486	2.42
38	2017	2.97	759.128	434.389	3.12
38	2018	3.23	765.594	440.620	2.89
38	2019	2.98	772.018	458.469	4.73
38	2020	3.85	790.174	357.156	2.42
38	2021	2.62	794.403	454.927	7.35
38	2022	2.54	799.764	472.789	4.16
39	2015	7.07	942.283	499.333	4.13
39	2016	3.19	949.682	954.682	2.47
39	2017	4.93	957.024	484.859	3.6
39	2018	6.02	964.106	491.871	2.16
39	2019	6.26	971.086	508.715	3.89
39	2020	7.56	1.018.505	533.376	3.49
39	2021	7.55	1.025.020	534.030	5.89
39	2022	7.34	1.033.367	565.936	1.23
40	2015	4.56	743.090	386.503	2.94
40	2016	6.15	749.720	754.720	2.24
40	2017	5.82	756.079	388.307	3.44
40	2018	4.2	762.377	410.431	2.36

40	2019	4.11	768.583	406.009	3.83
40	2020	6.92	801.718	416.576	3.01
40	2021	6.59	807.005	430.690	6.62
40	2022	6.64	813.791	456.305	5.04
41	2015	5.1	873.986	430.726	3.42
41	2016	7.42	880.092	885.092	2.96
41	2017	4.39	886.197	461.536	4.01
41	2018	4.36	891.892	467.681	2.83
41	2019	4.35	897.711	475.440	2.96
41	2020	6.97	968.821	480.431	2.65
41	2021	4.28	976.504	486.248	6.54
41	2022	3.23	986.455	483.098	3.39
42	2015	6.53	1.288.577	613.194	3.52
42	2016	6.03	1.292.609	1.297.609	2.33
42	2017	5.59	1.296.281	622.598	3.64
42	2018	6.17	1.299.724	628.478	2.95
42	2019	6.45	1.302.813	641.706	4.04
42	2020	7.64	1.471.489	638.570	2.8
42	2021	6.71	1.484.209	645.103	7.38
42	2022	6.63	1.500.754	687.625	4.1
43	2015	9.52	1.424.891	635.852	3.64
43	2016	7.44	1.429.386	1.434.386	2.67
43	2017	7.33	1.433.515	696.162	3.58
43	2018	8.24	1.437.225	695.264	2.95
43	2019	8.12	1.440.698	711.140	4.13
43	2020	9.82	1.596.996	715.224	2.74
43	2021	9.97	1.608.611	715.845	6.44
43	2022	9.64	1.623.595	711.606	4.5
44	2015	6.49	1.781.379	937.100	3.08
44	2016	8.47	1.788.880	1.793.880	2.84
44	2017	8.04	1.796.004	895.712	4.24
44	2018	7.2	1.802.829	905.510	3.09
44	2019	7.39	1.809.096	896.833	4.61
44	2020	9.83	1.809.096	910.555	3.09
44	2021	9.78	1.978.759	879.258	6.04
44	2022	9.48	2.010.617	912.524	4.25
45	2015	6.43	120.792	63.880	2.7
45	2016	9.53	121.112	126.112	2.25
45	2017	6.68	121.474	62.775	3.9
45	2018	4.78	121.872	66.899	2.65
45	2019	4.37	122.111	63.418	2.95

45	2020	8.59	121.526	66.311	4.15
45	2021	8.73	121.610	66.086	6.8
45	2022	6.71	121.675	66.834	3.48
46	2015	4.53	512.226	287.511	2.56
46	2016	7.38	514.171	519.171	2.15
46	2017	4.47	516.102	271.527	3.1
46	2018	4.35	517.887	274.109	2.45
46	2019	4.16	519.587	289.269	2.87
46	2020	7.92	522.364	288.959	1.93
46	2021	7.85	522.728	282.178	6.65
46	2022	5.83	523.008	288.777	2.63
47	2015	6.43	183.815	94.405	2.61
47	2016	6.16	186.420	191.420	2.19
47	2017	3.96	188.928	104.989	3.5
47	2018	4.23	191.571	109.761	2.47
47	2019	4.33	194.084	103.519	4.12
47	2020	7.44	192.322	110.256	2.84
47	2021	7.26	193.525	112.124	6.65
47	2022	5.58	195.065	114.805	3.28
48	2015	5.77	1.701.114	854.170	2.56
48	2016	4.46	1.729.083	1.734.083	2.32
48	2017	6.61	1.757.686	963.496	3.64
48	2018	5.21	1.786.114	931.954	2.76
48	2019	4.5	1.814.110	962.320	3.41
48	2020	9.57	1.653.524	1.023.964	2.87
48	2021	9.54	1.656.564	1.034.794	7.11
48	2022	7.6	1.659.975	1.075.827	3.19
49	2015	4.1	296.404	142.797	3.46
49	2016	7.76	299.222	304.222	2.94
49	2017	5.05	301.870	157.445	3.61
49	2018	6.08	304.477	162.881	2.92
49	2019	5.8	307.097	169.603	3.55
49	2020	7.02	307.150	157.260	2.45
49	2021	6.89	308.310	181.210	6.77
49	2022	4.98	309.742	169.940	3.39
50	2015	8.06	246.119	129.119	3.95
50	2016	5.42	247.212	252.212	2.71
50	2017	8.19	248.094	124.736	4.03
50	2018	7.81	249.003	124.913	3.08
50	2019	8.08	249.905	133.510	3.45
50	2020	8.4	273.825	124.590	2.58



50	2021	8.25	275.781	132.440	6.73
50	2022	6.68	278.299	133.821	5.83
51	2015	3.72	408.947	234.828	3
51	2016	2.37	416.683	246.003	2.29
51	2017	1.99	421.295	244.415	4.2
51	2018	1.49	425.758	252.966	2.66
51	2019	1.8	430.220	256.632	2.78
51	2020	3.71	436.395	269.426	1.4
51	2021	3.69	443.283	268.964	2.29
51	2022	3.71	448.131	268.964	6.49
52	2015	3	982.246	510.544	2
52	2016	2.85	983.527	535.674	2.26
52	2017	3.12	995.264	550.178	3.96
52	2018	2.72	1.006.692	564.324	2.61
52	2019	3.06	1.018.402	578.436	2.53
52	2020	4.06	985.770	609.943	1.3
52	2021	4.04	998.647	595.343	2.21
52	2022	3.97	1.064.286	626.283	5.43
53	2015	10.67	704.026	451.355	3.09
53	2016	10, 30	722.479	440.324	2.29
53	2017	10.6	736.210	26.249	2.54
53	2018	10.6	736.210	26.249	2.54
53	2019	10.6	742.731	474.081	2.54
53	2020	12.16	747.161	450.478	1.3
53	2021	11.43	758.168	430.765	2.34
53	2022	10.85	776.705	470.018	6.52
54	2015	5.82	1.180.914	508.956	3.25
54	2016	5.74	1.180.479	604.701	2.96
54	2017	9.75	729.364	429.476	3.77
54	2018	5.76	1.206.714	629.056	3.86
54	2019	3.69	1.219.640	630.583	3.56
54	2020	5.09	1.125.804	630.847	1.5
54	2021	5.17	1.136.474	626.348	2.37
54	2022	5.44	1.282.804	626.348	6.77
55	2015	5.52	403.043	222.326	6.59
55	2016	5.84	417.744	223.497	3.09
55	2017	5.08	422.732	225.013	2.29
55	2018	6.22	427.498	239.542	2.66
55	2019	4.8	431.939	243.570	2.77
55	2020	4.8	431.939	243.570	2.77
55	2021	9.13	376.324	262.125	2.29

55	2022	7.18	449.890	272.537	6.49
56	2015	0.97	550.986	353.172	7.65
56	2016	1.08	552.307	351.322	6.86
56	2017	0.85	553.388	352.292	3.54
56	2018	1.39	554.394	353.845	7.77
56	2019	0.91	555.304	342.849	3.08
56	2020	2.28	586.110	343.078	2.72
56	2021	2.04	589.108	349.055	4.55
56	2022	3.65	592.916	351.322	4.56
57	2015	3.68	867.393	485.245	7.03
57	2016	3.66	868.814	478.907	6
57	2017	3.76	869.894	506.848	3.99
57	2018	3.77	870.705	505.250	7.3
57	2019	3.5	871.370	499.650	3.82
57	2020	4.45	949.318	490.113	5.14
57	2021	4.38	955.839	496.443	6.86
57	2022	5.51	964.253	478.907	3.54
58	2015	2.46	689.200	404.547	6.59
58	2016	4.2	691.295	410.215	6.07
58	2017	3.48	693.104	392.417	3.71
58	2018	4.12	694.902	416.509	7.13
58	2019	3.36	696.295	412.033	3.93
58	2020	4.11	731.125	414.400	5.89
58	2021	3.53	734.888	399.084	6
58	2022	5.37	739.669	410.215	3.99
59	2015	3.95	1.021.190	547.466	6.75
59	2016	2.42	1.026.101	547.012	6.48
59	2017	2.27	1.030.790	537.081	3.05
59	2018	2.53	1.035.290	569.310	7.32
59	2019	3.29	1.039.284	553.749	3.97
59	2020	4.61	1.089.775	551.362	6.75
59	2021	4.91	1.096.588	565.151	6.07
59	2022	6.65	1.105.337	547.012	3.71
60	2015	2.79	1.145.396	597.639	7.04
60	2016	3.08	1.149.710	593.036	6.69
60	2017	2.99	1.153.803	638.135	2.77
60	2018	3.38	1.157.500	638.460	6.63
60	2019	3.05	1.160.677	636.500	4.47
60	2020	3.82	1.223.745	626.254	6.2
60	2021	3.66	1.231.013	606.076	6.48
60	2022	5.45	1.240.322	593.036	3.05

61	2015	5.02	1.546.883	800.894	6.66
61	2016	4.91	1.554.385	763.882	6.78
61	2017	3.18	1.561.392	853.996	2.93
61	2018	4.15	1.568.113	818.385	6.27
61	2019	3.58	1.574.272	801.966	4.58
61	2020	5.24	1.635.294	791.101	5.83
61	2021	5.15	1.644.400	785.650	6.69
61	2022	6.83	1.656.020	763.882	2.77
62	2015	4.95	2.544.315	1.292.343	4.01
62	2016	4.83	2.560.675	1.257.768	6.81
62	2017	4.6	2.576.596	1.318.611	3.19
62	2018	3.15	2.591.795	1.399.610	5.88
62	2019	3.7	2.606.204	1.328.223	4.62
62	2020	5.49	2.654.448	1.310.685	5.93
62	2021	5.4	2.668.296	1.273.597	6.78
62	2022	6.57	2.685.900	1.257.768	2.93
63	2015	2.6	1.030.193	532.005	3.53
63	2016	2.83	1.033.698	481.290	6.79
63	2017	2.91	1.036.823	515.516	2.77
63	2018	2.46	1.039.794	553.923	4.61
63	2019	2.73	1.042.395	526.129	4.66
63	2020	3.36	1.119.251	515.451	8.39
63	2021	3.51	1.127.094	514.666	6.81
63	2022	4.97	1.137.227	481.290	3.19
64	2015	4.77	2.407.115	1.173.139	4.13
64	2016	4.64	2.419.000	1.213.495	6.7
64	2017	5.16	2.430.185	1.281.242	2.69
64	2018	4.01	2.440.714	1.276.672	4.73
64	2019	3.69	2.450.668	1.149.629	4.97
64	2020	5.12	2.536.729	1.169.366	8.06
64	2021	5.44	2.550.360	1.157.462	6.79
64	2022	4.06	2.567.718	1.213.495	2.77
65	2015	2.55	1.594.083	893.816	4.57
65	2016	7.17	1.599.811	781.310	6.03
65	2017	3.07	1.604.897	906.735	2.74
65	2018	3.59	1.609.677	903.356	4.71
65	2019	3.95	1.613.991	882.062	4.51
65	2020	5.34	1.708.114	879.516	7.78
65	2021	5.42	1.718.462	841.190	6.7
65	2022	5.26	1.731.731	781.310	2.69
66	2015	1.75	761.205	424.851	5.85

66	2016	3.72	765.094	389.032	4.65
66	2017	2.09	768.912	444.322	3.02
66	2018	3.84	772.297	436.530	4.51
66	2019	2.86	775.715	410.708	4.86
66	2020	4.13	776.151	394.186	7.55
66	2021	4.46	778.525	416.145	6.03
66	2022	4.32	781.417	389.032	2.74
67	2015	3.57	669.713	364.834	7.77
67	2016	4.15	673.282	347.985	3.08
67	2017	1.49	676.703	383.017	2.72
67	2018	1.85	679.993	390.266	4.55
67	2019	2.77	682.978	358.182	4.56
67	2020	3.85	685.967	355.849	7.53
67	2021	3.68	688.337	348.546	4.65
67	2022	3.38	691.260	347.985	3.02
68	2015	2.51	1.140.480	601.681	3.99
68	2016	1.47	1.148.012	613.512	2.24
68	2017	2.89	1.155.214	590.934	3.71
68	2018	4	1.162.092	612.763	4.09
68	2019	3.77	1.168.503	636.680	4.5
68	2020	4.86	1.152.537	618.642	7.59
68	2021	4.55	1.155.894	601.353	3.08
68	2022	3.25	1.159.965	613.512	2.72
69	2015	6.41	1.581.787	815.028	3.71
69	2016	4.43	1.593.683	819.448	2.35
69	2017	4.97	1.605.307	819.322	3.99
69	2018	5.94	1.616.578	864.530	5.83
69	2019	6.24	1.605.969	831.812	4.61
69	2020	10.97	2.082.801	1.039.833	4.73
69	2021	6.03	1.611.805	843.685	2.24
69	2022	5.91	1.619.035	819.448	3.71
70	2015	6.3	2.117.279	1.083.519	3.05
70	2016	3.88	2.150.482	1.048.577	6.73
70	2017	4.97	2.183.682	1.075.359	5.79
70	2018	4.62	2.216.804	1.094.650	6.13
70	2019	4.62	2.249.476	1.012.290	5.89
70	2020	10.97	2.082.801	1.039.833	4.73
70	2021	10.87	2.091.930	1.069.708	2.35
70	2022	8.8	2.103.401	1.048.577	3.99
71	2015	4.05	1.080.389	575.330	2.77
71	2016	3.81	1.090.075	524.426	6.39

71	2017	5	1.099.504	620.659	5.82
71	2018	4.21	1.108.718	616.733	5.79
71	2019	3.61	1.117.688	557.832	5.79
71	2020	5.75	1.119.209	545.669	3.53
71	2021	5.54	1.125.522	553.405	6.73
71	2022	4.83	1.133.584	524.426	5.79
72	2015	6.11	1.240.985	647.442	2.93
72	2016	4.39	1.247.303	596.506	7.92
72	2017	5.14	1.253.078	664.389	5.67
72	2018	4.56	1.258.618	674.153	5.82
72	2019	4.28	1.263.814	611.133	5.82
72	2020	7.48	1.318.062	593.902	4.13
72	2021	7.09	1.325.914	604.172	6.39
72	2022	5.47	1.335.972	596.506	5.82
73	2015	2.1	1.041.716	516.973	3.19
73	2016	3.93	1.045.375	512.364	7.73
73	2017	3.23	1.048.799	504.159	5.8
73	2018	2.6	1.051.900	555.941	5.67
73	2019	3.16	1.054.611	530.573	5.67
73	2020	4.8	1.103.902	549.393	4.57
73	2021	4.98	1.109.683	534.007	7.92
73	2022	4.74	1.117.033	512.364	5.67
74	2015	6.99	676.087	351.752	2.77
74	2016	3.38	677.993	357.771	6.88
74	2017	3.19	679.888	349.665	5.25
74	2018	3.71	681.394	376.948	5.8
74	2019	3.52	682.684	364.358	5.8
74	2020	4.8	744.350	366.133	5.85
74	2021	4.99	750.143	362.786	7.73
74	2022	5.84	757.665	357.771	5.8
75	2015	6.05	627.413	352.826	2.69
75	2016	4.28	627.984	352.775	7
75	2017	3.8	628.609	390.608	5.45
75	2018	3.82	628.924	393.126	5.25
75	2019	2.98	628.977	355.505	5.25
75	2020	3.74	670.812	353.328	7.77
75	2021	3.86	674.133	343.550	6.88
75	2022	4.33	678.343	352.775	5.25
76	2015	3.99	828.783	431.031	2.74
76	2016	5.61	829.480	419.089	7.92
76	2017	5.76	829.899	436.255	6.72

76	2018	3.75	830.090	499.104	5.45
76	2019	3.6	830.108	422.524	5.45
76	2020	5.44	870.057	472.088	3.99
76	2021	4.25	873.346	437.374	7
76	2022	2.48	877.432	419.089	5.45
77	2015	5.01	1.236.607	640.266	3.02
77	2016	3.21	1.240.383	612.385	8.24
77	2017	3.64	1.243.906	690.739	6.65
77	2018	4.11	1.246.927	661.169	5.91
77	2019	3.6	830.108	422.524	5.45
77	2020	4.92	1.301.635	695.281	3.71
77	2021	4.82	1.307.602	628.363	7.92
77	2022	4.69	1.315.125	612.385	6.72
78	2015	3.03	1.152.915	603.039	2.72
78	2016	3.63	1.158.374	573.558	9.12
78	2017	3.39	1.163.614	653.981	6.48
78	2018	2.76	1.168.277	659.499	6.61
78	2019	2.7	1.172.790	580.625	6.61
78	2020	4.81	1.198.012	617.366	3.05
78	2021	4.68	1.203.127	569.185	8.24
78	2022	4.54	1.209.543	573.558	6.65
79	2015	4.1	1.187.795	633.048	4.02
79	2016	4.3	1.188.193	580.256	7.55
79	2017	4.12	1.188.478	638.330	5.31
79	2018	3.1	1.188.913	634.845	6.72
79	2019	3.89	1.189.106	621.617	6.72
79	2020	5.13	1.344.165	644.188	2.77
79	2021	4.9	1.356.027	611.621	9.12
79	2022	6.05	1.371.509	580.256	6.48
80	2015	5.67	1.167.313	611.721	3.62
80	2016	5.06	1.270.702	569.098	7.53
80	2017	4.54	1.285.018	662.618	5.23
80	2018	5.71	1.299.024	664.523	6.65
80	2019	5.4	1.312.881	571.038	6.65
80	2020	8.21	1.311.215	619.688	2.93
80	2021	8	1.320.570	592.569	7.55
80	2022	7.84	1.332.664	569.098	5.31
81	2015	5	954.305	481.352	3.92
81	2016	5.68	962.773	444.868	7.59
81	2017	4.48	970.894	482.634	6.76
81	2018	5.09	978.892	494.269	6.48

81	2019	5.62	986.672	468.379	6.48
81	2020	8.77	1.060.377	474.876	3.19
81	2021	8.07	1.071.712	473.411	7.53
81	2022	8.05	1.086.620	444.868	5.23
82	2015	2.51	936.801	459.000	3.79
82	2016	2.22	947.614	470.171	3.16
82	2017	2.48	958.082	477.731	3.16
82	2018	2.38	968.520	472.634	2.35
82	2019	2.71	978.875	491.219	7.65
82	2020	3.35	969.694	469.711	2.77
82	2021	3.45	976.020	507.605	7.59
82	2022	3.11	984.162	984.162	6.76
83	2015	4.26	845.314	444.281	4.41
83	2016	2.14	854.194	453.061	3.05
83	2017	3.91	863.004	463.401	3.05
83	2018	2.88	871.497	458.086	5.14
83	2019	2.26	879.992	472.147	7.03
83	2020	3.49	850.057	480.280	2.69
83	2021	3.1	853.507	469.081	3.16
83	2022	1.4	857.818	857.818	3.16
84	2015	2.07	1.072.113	593.143	4.77
84	2016	1.01	1.076.805	649.017	2.74
84	2017	1.83	1.081.204	629.884	2.74
84	2018	1.75	1.085.227	619.659	5.89
84	2019	2.08	1.088.910	637.160	6.59
84	2020	2.84	1.124.436	629.431	2.74
84	2021	2.31	1.129.822	622.460	3.05
84	2022	1.36	1.136.632	1.136.632	3.05
85	2015	8.46	280.004	142.628	4.66
85	2016	7.66	281.978	136.781	2.67
85	2017	4.68	284.002	144.688	2.67
85	2018	3.56	285.582	145.556	6.75
85	2019	4.15	287.409	141.428	6.75
85	2020	6.21	286.796	136.546	3.02
85	2021	6.37	287.962	145.426	2.74
85	2022	4.38	289.418	289.418	2.74
86	2015	3.8	137.908	75.516	4.02
86	2016	5.71	139.117	66.200	2.58
86	2017	3.76	139.995	77.674	2.58
86	2018	3.98	140.971	78.820	6.2
86	2019	4.54	141.876	66.293	7.04

86	2020	6.68	149.149	68.609	2.72
86	2021	6.61	150.371	69.365	2.67
86	2022	5.39	151.960	151.960	2.67
87	2015	7.28	851.298	406.935	3.81
87	2016	7.22	856.410	446.337	2.95
87	2017	7.22	861.414	443.035	2.95
87	2018	6.65	866.118	454.849	5.83
87	2019	5.88	870.682	419.899	6.66
87	2020	9.61	843.810	435.058	3.54
87	2021	9.65	844.933	423.631	2.58
87	2022	7.66	846.126	846.126	2.58
88	2015	4.01	229.013	109.336	3.84
88	2016	5.16	231.112	104.793	2.75
88	2017	3.42	233.123	118.848	2.75
88	2018	3.56	235.211	115.740	5.93
88	2019	4.25	237.208	112.074	3.99
88	2020	6.7	239.649	106.309	3.99
88	2021	6.55	241.202	113.522	2.95
88	2022	4.57	243.200	243.200	2.95
89	2015	5.57	194.815	97.493	3.99
89	2016	6.09	196.202	92.091	2.93
89	2017	4.64	197.696	99.493	2.93
89	2018	4.5	199.078	99.297	4.13
89	2019	4.89	200.422	95.643	3.71
89	2020	6.33	208.006	98.160	3.71
89	2021	6.23	209.528	97.127	2.75
89	2022	6.18	211.497	211.497	2.75
90	2015	4.88	125.706	67.079	3.89
90	2016	4.42	126.404	63.863	2.96
90	2017	3.61	127.279	67.235	2.96
90	2018	2.44	128.282	68.512	4.57
90	2019	2.63	129.014	66.399	3.05
90	2020	6.74	132.434	65.898	3.05
90	2021	6.87	133.272	64.630	2.93
90	2022	5.05	134.350	134.350	2.93
91	2015	5.1	174.995	90.721	4.04
91	2016	6.93	175.607	89.392	2.86
91	2017	4.26	176.099	94.435	2.86
91	2018	3.8	176.697	90.358	5.85
91	2019	3.96	177.007	84.693	2.77
91	2020	8.32	195.175	90.103	2.77



91	2021	8.15	196.917	86.618	2.96
91	2022	6.39	199.192	199.192	2.96
92	2015	7.01	2.848.583	1.468.094	4.47
92	2016	5.82	2.862.406	1.334.419	3.71
92	2017	5.98	2.874.699	1.495.837	2.77
92	2018	6.01	2.885.555	1.520.041	4.01
92	2019	5.76	2.896.195	1.437.448	4.61
92	2020	9.79	2.874.314	1.483.343	2.93
92	2021	9.68	2.880.284	1.465.502	2.86
92	2022	7.62	2.887.223	2.887.223	2.86
93	2015	4.29	200.485	105.496	4.58
93	2016	2.43	202.319	106.550	3.05
93	2017	2.26	203.997	115.591	2.69
93	2018	3.07	205.788	112.502	3.53
93	2019	2.42	207.490	104.012	4.73
93	2020	5.93	213.046	105.445	3.19
93	2021	6.57	214.653	106.777	3.71
93	2022	8.43	216.735	216.735	2.77

