

Thor Havvindmøllepark

Modellering af fugleforekomster

Thor Wind Farm I/S

Dato: 5. januar 2023

Indhold

1	Resultater	1
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1 Resultater

Resultaterne af modelleringen af fugleforekomster i og omkring området for Thor Havvindmøllepark er vist på de følgende sider.

Analysis Browser
Svarbag.april 1

Status	ID	Survey	DataFilter	Model/DefnName	Created	Run	ID2	# params	Delta	AC	ESW/EDR	D	D.LCL	D.UCL	D.CV
1	5	1	1	1 New Analyst	07-12-2022 16:53	09-12-2022 09:36	5	3,065807	49,28786	3,11E-07	1,54E-07	6,31E-07	0,2398349		
1	6	1	1	2 New Analyst	07-12-2022 14:22	09-12-2022 09:36	6	5,192795	71,21527	2,56E-07	1,26E-07	5,23E-07	0,3459338		
1	8	1	1	3 New Analyst	07-12-2022 14:22	09-12-2022 09:36	8	3,791954	69,81443	6,19E-07	5,55E-08	6,89E-06	1,784552		
1	7	1	1	4 New Analyst	07-12-2022 14:22	09-12-2022 09:36	7	6,059998	72,80247	3,78E-07	6,81E-08	2,05E-06	1,019924		
1	9	1	1	5 New Analyst	07-12-2022 14:23	09-12-2022 09:37	9	0	66,02248	3,84E-07	1,65E-07	8,96E-07	0,4189019		
1	10	1	1	6 New Analyst	07-12-2022 14:23	09-12-2022 09:37									
1	11	1	1	7 New Analyst	07-12-2022 15:17	09-12-2022 09:38	11								
1	12	1	1	8 New Analyst	07-12-2022 15:17	09-12-2022 09:38	12								

Response Surface/Prediction

Layer name: Region

Label Estimated N
1.1 Thor 2541.956

Layer name: Study area

Label Estimated N
1.1 Thor 2541.956

Layer name: T1000

Label Estimated N
1.1 Default 39.82744

Layer name: T10000

Label Estimated N
1.1 Default 241.2823

Layer name: T16000

Label Estimated N
1.1 Default 444.3668

Layer name: T2000

Label Estimated N
1.1 Default 48.27799

Layer name: T3000

Label Estimated N
1.1 Default 85.07358

Layer name: T4000

Label Estimated N
1.1 Default 102.4911

Layer name: T500

Label Estimated N
1.1 Default 13.07661

Layer name: T5000

Label Estimated N
1.1 Default 122.6565

Layer name: Thor

Label Estimated N
1.1 Default 39.73522

Layer name: VN1000

Label Estimated N
1.1 Default 5.861588

Layer name: VN10000

Label Estimated N
1.1 Default 98.97066

Layer name: VN16000

Label Estimated N
1.1 Default 175.4269

Layer name: VN2000

Label Estimated N
1.1 Default 12.87918

Layer name: VN3000

Label Estimated N
1.1 Default 21.2931

Layer name: VN4000

Label Estimated N
1.1 Default 30.56209

Layer name: VN500

Label Estimated N
1.1 Default 2.485367

Layer name: VN5000

Label Estimated N
1.1 Default 41.11731

Layer name: VS1000

Label Estimated N
1.1 Default 18.70788

Layer name: VS10000

Label Estimated N
1.1 Default 442.6771

Layer name: VS16000

Label Estimated N
1.1 Default 805.3745

Layer name: VS2000

Label Estimated N
1.1 Default 45.83813

Layer name: VS3000

Label Estimated N
1.1 Default 75.55296

Layer name: VS4000

Label Estimated N
1.1 Default 111.2416

Layer name: VS500

Label Estimated N
1.1 Default 10.21861

Response Surface/Plot: Vigam-Plot

Response Surface/Plot: predicted density

proc: time()
bruger system forA_bet
5.37 0.70 6.28

Analysis Browser
Svarbag.april 2

Status	ID	Survey	DataFilter	Model/DefnName	Created	Run	ID2	# params	Delta	AC	ESW/EDR	D	D.LCL	D.UCL	D.CV
1	5	1	1	1 New Analyst	07-12-2022 16:53	09-12-2022 09:42	5	0	33,20335	8,79E-08	3,51E-08	2,20E-07	0,454715		
1	6	1	1	2 New Analyst	07-12-2022 14:22	09-12-2022 09:42	6	2,402901	35,60625	7,28E-08	2,72E-08	1,95E-07	0,4994341		
1	8	1	1	3 New Analyst	07-12-2022 14:22	09-12-2022 09:42	8	0,446701	33,65005	8,09E-08	3,21E-08	2,04E-07	0,4687365		
1	7	1	1	4 New Analyst	07-12-2022 14:22	09-12-2022 09:42	7	2,149921	35,35327	6,17E-08	2,48E-08	1,54E-07	0,4602961		
1	9	1	1	5 New Analyst	07-12-2022 14:23	09-12-2022 09:43	9	1,280079	34,48343	8,72E-08	3,61E-08	2,10E-07	0,4374501		
1	10	1	1	6 New Analyst	07-12-2022 14:23	09-12-2022 09:44									
1	11	1	1	7 New Analyst	07-12-2022 15:17	09-12-2022 09:44	11								
1	12	1	1	8 New Analyst	07-12-2022 15:17	09-12-2022 09:44	12								

Response Surface/Prediction

Layer name: Region

Label Estimated N
1.1 Thor 1170.35

Layer name: Study area

Label Estimated N
1.1 Thor 1170.35

Layer name: T1000

Label Estimated N
1.1 Default 13.09376

Layer name: T10000

Label Estimated N
1.1 Default 87.56586

Layer name: T16000

Label Estimated N
1.1 Default 181.2495

Layer name: T2000

Label Estimated N
1.1 Default 22.00493

Layer name: T3000

Label Estimated N
1.1 Default 27.74956

Layer name: T4000

Label Estimated N
1.1 Default 33.88719

Layer name: T500

Label Estimated N
1.1 Default 4.221489

Layer name: T5000

Label Estimated N
1.1 Default 40.9803

Layer name: Thor

Label Estimated N
1.1 Default 12.66784

Layer name: VN1000

Label Estimated N
1.1 Default 13.4622

Layer name: VN10000

Label Estimated N
1.1 Default 99.1326

Layer name: VN2000

Label Estimated N
1.1 Default 29.5727

Layer name: VN3000

Label Estimated N
1.1 Default 48.64921

Layer name: VN4000

Label Estimated N
1.1 Default 70.27419

Layer name: VN500

Label Estimated N
1.1 Default 6.08594

Layer name: VN5000

Label Estimated N
1.1 Default 94.47526

Layer name: VS1000

Label Estimated N
1.1 Default 4.303563

Layer name: VS10000

Label Estimated N
1.1 Default 105.743

Layer name: VS16000

Label Estimated N
1.1 Default 183.4975

Layer name: VS2000

Label Estimated N
1.1 Default 10.7288

Layer name: VS3000

Label Estimated N
1.1 Default 17.68313

Layer name: VS4000

Label Estimated N
1.1 Default 26.02519

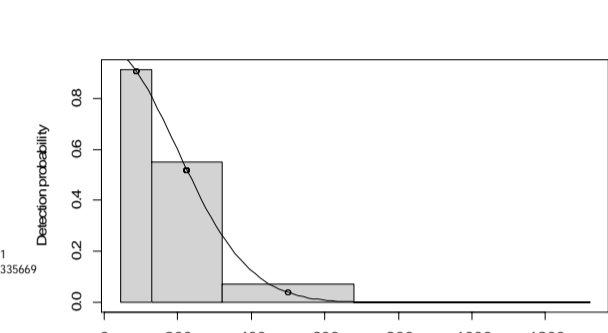
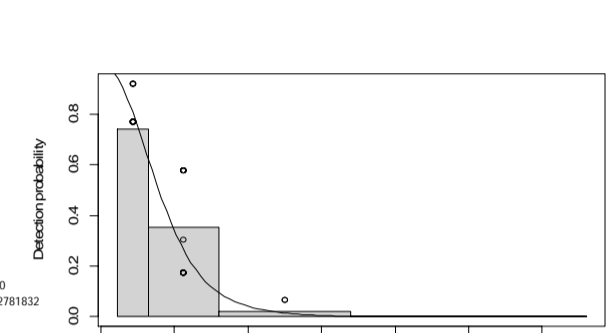
Layer name: VS500

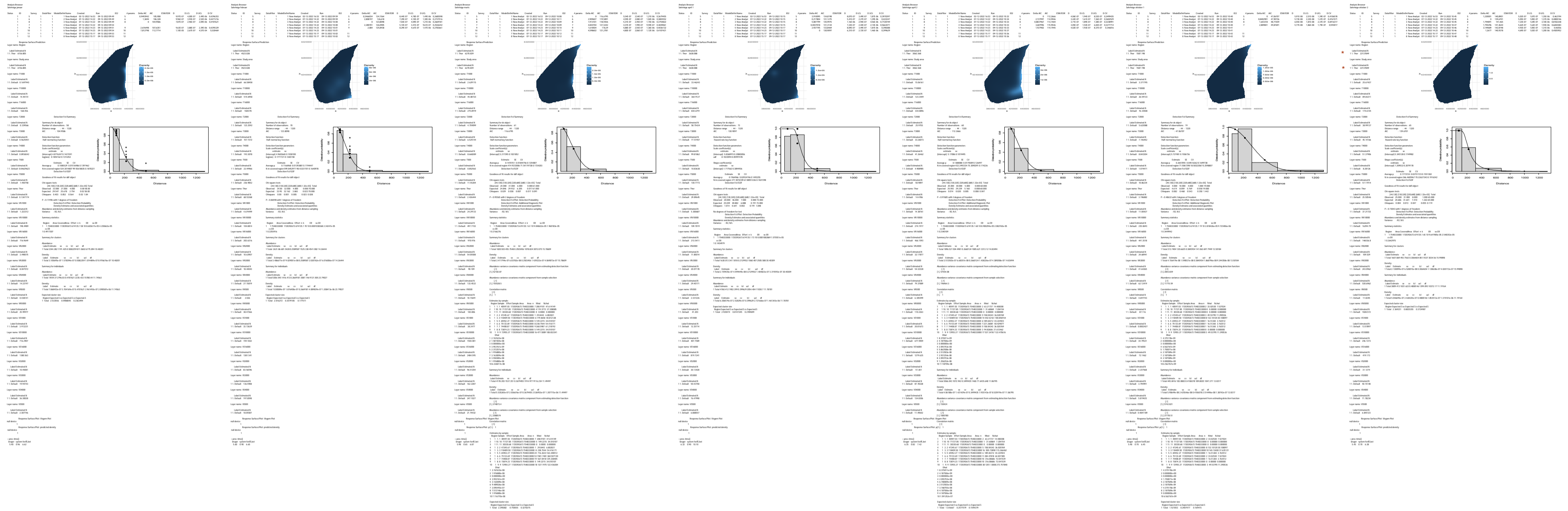
Label Estimated N
1.1 Default 2.37998

Response Surface/Plot: Vigam-Plot

Response Surface/Plot: g [1]

proc: time()
bruger system forA_bet
5.17 0.68 6.11

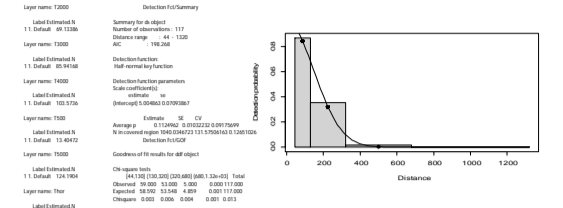
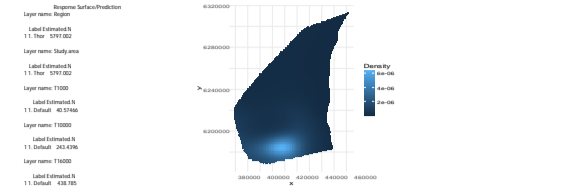




*Det har været svært at finde en modeltilpasning, der ikke overestimerer den samlede bestandstæthed. Dette skyldes generelle problemer i modeltypens håndtering af estimater tæt på kanterne af undersøgelsesområdet. Derfor overvurderer modellen kraftigt antallet af sølvåger i det nordøstlige hjørne, hvor der ikke er foretaget eftersøgning af fugle. I de øvrige dele af undersøgelsesområdet har modellen estimeret forekomsterne korrekt.

Derfor benyttes der for sølvåge i anden observation i oktober estimeret for individuel abundans (summary for individuals) i stedet for modellens estimat for study area til afrapportering i miljøkonsekvensrapporten.

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	10,000,000	5,000,000	5,000,000	100	200	50
2000	12,000,000	6,000,000	6,000,000	120	240	60
2010	15,000,000	8,000,000	7,000,000	150	300	75



Population Density Distribution

Year: 2010

Urban Population: 8,000,000

Rural Population: 7,000,000

Population Density: 150

Urban Density: 300

Rural Density: 75

Urban Population Density

Year: 2010

Urban Population: 8,000,000

Urban Density: 300

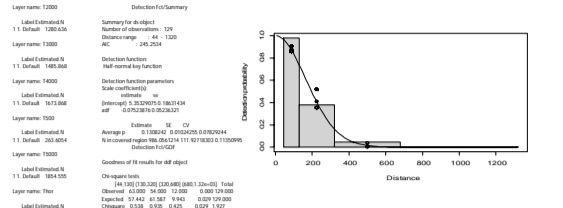
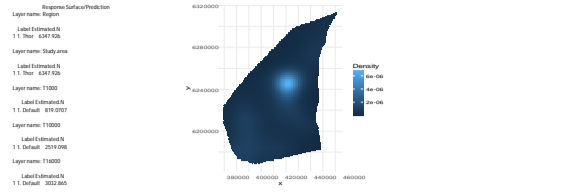
Rural Population Density

Year: 2010

Rural Population: 7,000,000

Rural Density: 75

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	12,000,000	6,000,000	6,000,000	120	240	60
2000	15,000,000	8,000,000	7,000,000	150	300	75
2010	18,000,000	10,000,000	8,000,000	180	360	90



Population Density Distribution

Year: 2010

Urban Population: 10,000,000

Rural Population: 8,000,000

Population Density: 180

Urban Density: 360

Rural Density: 90

Urban Population Density

Year: 2010

Urban Population: 10,000,000

Urban Density: 360

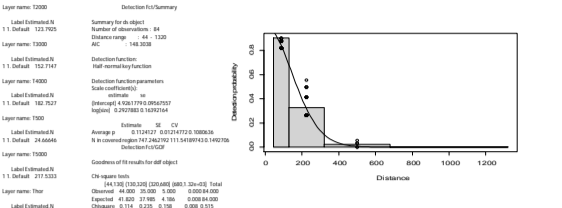
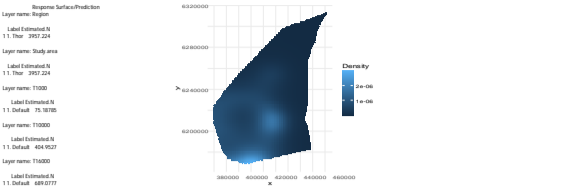
Rural Population Density

Year: 2010

Rural Population: 8,000,000

Rural Density: 90

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	15,000,000	8,000,000	7,000,000	150	300	75
2000	18,000,000	10,000,000	8,000,000	180	360	90
2010	22,000,000	13,000,000	9,000,000	220	440	110



Population Density Distribution

Year: 2010

Urban Population: 13,000,000

Rural Population: 9,000,000

Population Density: 220

Urban Density: 440

Rural Density: 110

Urban Population Density

Year: 2010

Urban Population: 13,000,000

Urban Density: 440

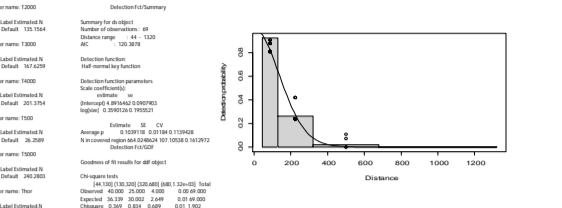
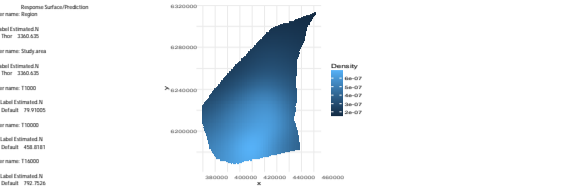
Rural Population Density

Year: 2010

Rural Population: 9,000,000

Rural Density: 110

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	18,000,000	10,000,000	8,000,000	180	360	90
2000	22,000,000	13,000,000	9,000,000	220	440	110
2010	28,000,000	17,000,000	11,000,000	280	560	140



Population Density Distribution

Year: 2010

Urban Population: 17,000,000

Rural Population: 11,000,000

Population Density: 280

Urban Density: 560

Rural Density: 140

Urban Population Density

Year: 2010

Urban Population: 17,000,000

Urban Density: 560

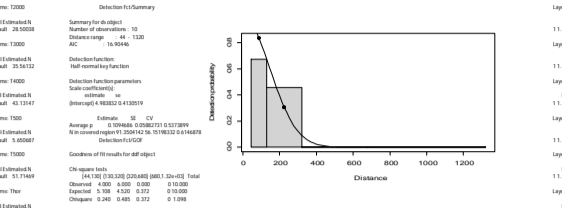
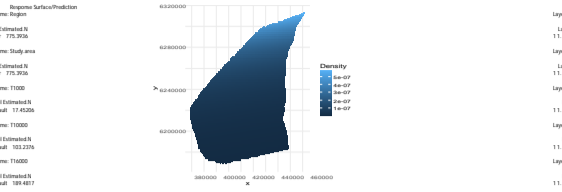
Rural Population Density

Year: 2010

Rural Population: 11,000,000

Rural Density: 140

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	22,000,000	13,000,000	9,000,000	220	440	110
2000	28,000,000	17,000,000	11,000,000	280	560	140
2010	35,000,000	22,000,000	13,000,000	350	700	175



Population Density Distribution

Year: 2010

Urban Population: 22,000,000

Rural Population: 13,000,000

Population Density: 350

Urban Density: 700

Rural Density: 175

Urban Population Density

Year: 2010

Urban Population: 22,000,000

Urban Density: 700

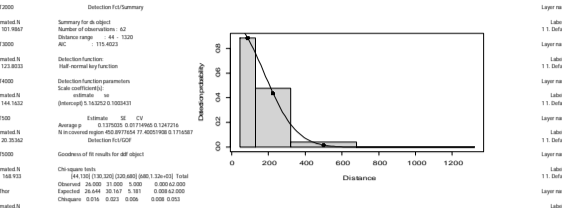
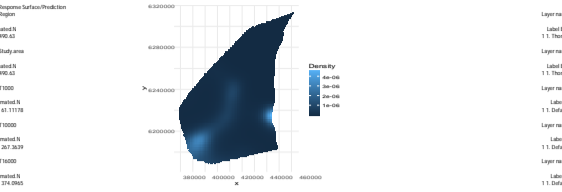
Rural Population Density

Year: 2010

Rural Population: 13,000,000

Rural Density: 175

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	28,000,000	17,000,000	11,000,000	280	560	140
2000	35,000,000	22,000,000	13,000,000	350	700	175
2010	45,000,000	28,000,000	17,000,000	450	900	225



Population Density Distribution

Year: 2010

Urban Population: 28,000,000

Rural Population: 17,000,000

Population Density: 450

Urban Density: 900

Rural Density: 225

Urban Population Density

Year: 2010

Urban Population: 28,000,000

Urban Density: 900

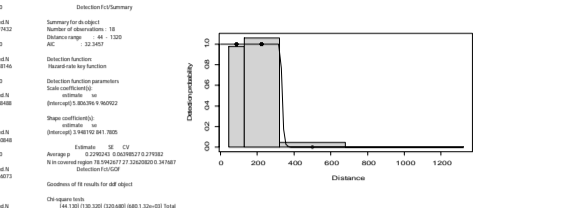
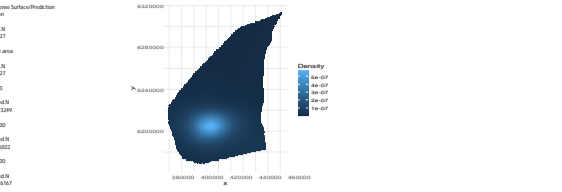
Rural Population Density

Year: 2010

Rural Population: 17,000,000

Rural Density: 225

Year	Population	Urban	Rural	Population Density	Urban Density	Rural Density
1990	35,000,000	22,000,000	13,000,000	350	700	175
2000	45,000,000	28,000,000	17,000,000	450	900	225
2010	60,000,000	38,000,000	22,000,000	600	1200	300



Population Density Distribution

Year: 2010

Urban Population: 38,000,000

Rural Population: 22,000,000

Population Density: 600

Urban Density: 1200

Rural Density: 300

Urban Population Density

Year: 2010

Urban Population: 38,000,000

Urban Density: 1200

Rural Population Density

Year: 2010

Rural Population: 22,000,000

Rural Density: 300