



# LINGLING-19 - Population Exposure Estimation based on bulletin n. 11

The population exposure, summarized by Admin 0, 1 and 2, has been calculated using a 1 km resolution LandScan raster (LandScan Database 2015). Admin boundaries are defined by Gaul 2015 dataset. Windspeed buffers are produced by GDACS (JRC)  
 This is a preliminary analysis and has not yet been validated in the field.

Analysis performed by ADAM (Automated Disaster Analysis and Mapping) on 04-09-2019 at 15:02 UTC  
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admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Heilongjiang Sheng	Harbin	334,529			334,529	
		Hegang	204,729			204,729	
		Jiamusi	1,476,736			1,476,736	
		Jixi	1,041,369	118,446	716,768	1,876,583	
		Mudanjiang	2,570,157	11,724	330,465	2,912,346	
		Qitaihe	840,186			840,186	
		Shuangyashan	1,503,666	55,773	46,133	1,605,572	
	Jiangsu Sheng	Nantong	1,443,213			1,443,213	
		Suzhou	26,054			26,054	
	Jilin Sheng	Baishan	1,303,947	13,309	37,795	1,355,051	
		Jilin	922,404			922,404	
		Tonghua	1,759,537			1,759,537	
		Yanbian Korean	828,932	189,411	1,310,824	2,329,167	
	Liaoning Sheng	Anshan	75,660			75,660	
		Benxi	343,011			343,011	
		Dalian	585,138			585,138	
		Dandong	2,442,759			2,442,759	
		Fushun	123,447			123,447	
	Shandong Sheng	Weihai	2,116,519			2,116,519	
		Yantai	8,235			8,235	
	Shanghai Shi	Name Unknown	3,386,215			3,386,215	
		Shanghai	17,808,340			17,808,340	
	Zhejiang Sheng	Jiaxing	17,831			17,831	
		Ningbo	5,544,141			5,544,141	
		Taizhou	806,084			806,084	
		Zhoushan	911,966			911,966	
	CHINA - TOT			48,424,805	388,663	2,441,985	51,255,453
	DEM PEOPLE'S REP OF KOREA	Chagang-do	Chosan	42,524			42,524
			Huichon	119,475			119,475
			Hwaphyong	50,003			50,003
			Janggang	67,982			67,982
			Jasong	53,861			53,861
Jonchon			117,784			117,784	
Junggang			40,327			40,327	
Kanggye			254,407			254,407	
Kopung			38,849			38,849	
Manpo			121,680			121,680	
Rangrim			31,913	3,691		35,604	
Ryongrim			41,486	440		41,926	
Sijung			49,940			49,940	
Songgan			102,523			102,523	
Songwon			28,347			28,347	
Tongsin			108,242	118		108,360	
Usi			36,665			36,665	
Wiwon			72,431			72,431	
Hamgyong-bukto			Chongjin			694,701	694,701
		Hoiryong			193,221	193,221	
		Hwadae		1	66,540	66,541	
		Hwasong			114,784	114,784	
		Kilju			137,402	137,402	
		Kimchaek			212,786	212,786	

				Kyongsong			137,287	137,287
				Musan			126,316	126,316
				Myongchon			29,808	29,808
				Onsong			105,644	105,644
				Orang			146,611	146,611
				Puryong			44,500	44,500
				Puyun			7,468	7,468
				Rajin			117,064	117,064
				Saepyo			98,388	98,388
				Sonbong			90,946	90,946
				Undok			105,739	105,739
				Yonsa			42,640	42,640
	Hamgyong-namdo		8,971	Bujon			42,477	51,448
				Danchon			382,939	382,939
				Doksong			104,343	104,343
				Hamhung			838,109	838,109
				Hamju			120,269	120,269
				Hochon			88,956	88,956
				Hongwon			155,981	155,981
		5	19,948	Jangjin			49,132	69,085
				Jongpyong			184,013	184,013
				Kowon			58,864	58,864
				Kumho			5,991	5,991
				Kumya			226,929	226,929
				Pukchong			179,606	179,606
				Rakwon			52,900	52,900
				Riwon			128,327	128,327
				Sinhung			126,141	126,141
				Sinpo			194,020	194,020
				Sudong			96,862	96,862
				Yodok			43,296	43,296
				Yonggwang			122,377	122,377
	Hwanghae-bukto		3,669	Bongsan			259,287	259,287
				Hwangju			190,555	194,224
				Koksan			129,124	129,124
				Kumchon			81,982	81,982
				Pyongsan			137,765	137,765
				Rinsan			102,363	102,363
				Sariwon			203,397	203,397
				Singye			74,891	74,891
				Sinpyong			77,534	77,534
				Sohung			118,336	118,336
				Songrim		51,040		51,040
				Suan			71,873	71,873
				Tosan			71,248	71,248
				Unpa			94,404	94,404
				Yonsan			77,429	77,429
				Yontan			118,742	118,742
	Hwanghae-namdo		5,336	Anak			125,864	131,200
				Baechon			169,421	169,421
				Bongchon			88,578	88,578
				Byoksong			111,769	111,769
		5,929	90,956	Chollima				96,885
				Chongdan			141,905	141,905
			43,706	Daean				43,706
				Haeju			291,097	291,097
		5,367	229,746	Hanggu			413	235,526
				Jaeryong			149,228	149,228
		7,949	80,117	Jangyon			588	88,654
				Kangryong			109,234	109,234
		66,181	11,072	Kangso				77,253
		56,534	2,368	Kwail				58,902
				Ongjin			143,034	143,034
		50,693	10,833	Ryonggang			2	61,528
		15,020	59,525	Ryongyon			11,252	85,797
			45,527	Samchon			35,501	81,028
				Sinchon			123,776	123,776

	<b>Sinwon</b>			91,334	91,334
	<b>Songhwa</b>	2,391	34,915		37,306
	<b>Taetan</b>		153	62,810	62,963
	<b>Unchon</b>		76,168	40,749	116,917
	<b>Unryul</b>	63,113	63,383		126,496
	<b>Waudoo</b>	47,050	296,316		343,366
	<b>Yonan</b>			178,416	178,416
<b>Kaesong-si</b>	<b>Jangpung</b>			76,395	76,395
	<b>Kaepung</b>			60,299	60,299
	<b>Kaesong</b>			42,381	42,381
	<b>Panmun</b>			225,784	225,784
<b>Kangwon-do</b>	<b>Anbyon</b>			99,160	99,160
	<b>Bopdong</b>			33,217	33,217
	<b>Changdo</b>	2,062	7,837	46,442	56,341
	<b>Cholwon</b>			60,554	60,554
	<b>Chonnae</b>			106,995	106,995
	<b>Hoiyang</b>			58,761	58,761
	<b>Ichon</b>			61,022	61,022
	<b>Kimhwa</b>		509	49,900	50,409
	<b>Kosan</b>			103,551	103,551
	<b>Kosong</b>	22,098	22,565	6,449	51,112
	<b>Kumgang</b>	10,896	28,473	11,974	51,343
	<b>Munchon</b>			127,566	127,566
	<b>Pangyo</b>			54,368	54,368
	<b>Pyonggang</b>			102,282	102,282
	<b>Sepo</b>			68,539	68,539
	<b>Tongchon</b>			87,613	87,613
	<b>Wonsan</b>			310,392	310,392
<b>P'yongan-bukto</b>	<b>Bakchon</b>	177,581			177,581
	<b>Byokdong</b>	41,138			41,138
	<b>Changsong</b>	32,233			32,233
	<b>Cholsan</b>	98,886			98,886
	<b>Chonma</b>	47,093			47,093
	<b>Daegwan</b>	75,245			75,245
	<b>Dongrim</b>	116,590			116,590
	<b>Hyangsan</b>	31,481			31,481
	<b>Jongju</b>	197,263			197,263
	<b>Kujang</b>	165,456			165,456
	<b>Kusong</b>	196,284			196,284
	<b>Kwaksan</b>	113,923			113,923
	<b>Nyongbyon</b>	129,127			129,127
	<b>Pihyon</b>	145,470			145,470
	<b>Ryongchon</b>	70,498			70,498
	<b>Sakju</b>	168,888			168,888
	<b>Sinuiju</b>	343,018			343,018
	<b>Sonchon</b>	129,492			129,492
	<b>Taechon</b>	129,537			129,537
	<b>Tongchang</b>	35,898			35,898
	<b>Uiju</b>	129,810			129,810
	<b>Unjon</b>	110,097			110,097
	<b>Unsan</b>	114,233			114,233
<b>Yomju</b>	141,476			141,476	
<b>P'yongan-namdo</b>	<b>Anju</b>	177,900			177,900
	<b>Bukchang</b>	9,877	166,497	16,803	193,177
	<b>Chongnam</b>	40,215			40,215
	<b>Daedong</b>	114,745			114,745
	<b>Daehung</b>		6,950	27,715	34,665
	<b>Dokchon</b>	129,236	111,980		241,216
	<b>Dukjang</b>	3,387	10,678		14,065
	<b>Hoichang</b>			95,209	95,209
	<b>Jungsan</b>	140,082			140,082
	<b>Kaechon</b>	320,298			320,298
	<b>Maengsan</b>		1,326	47,346	48,672
	<b>Mundok</b>	198,619			198,619
	<b>Nyongwon</b>	2,665	23,075	6,406	32,146
	<b>Onchon</b>	159,609			159,609
<b>Pyongsong</b>	72,085	218,525		290,610	

		<b>Pyongwon</b>	181,073			181,073
		<b>Sinyang</b>			58,117	58,117
		<b>Songchan</b>		17,506	158,785	176,291
		<b>Sukchon</b>	192,044			192,044
		<b>Sunchon</b>	265,341	62,690		328,031
		<b>Unsan</b>	144	212,304	9,308	221,756
		<b>Yangdok</b>			64,398	64,398
	<b>P'yongyang-si</b>	<b>Chunghwa</b>		37,428	60,467	97,895
		<b>Kangdong</b>		24,105	214,402	238,507
		<b>Kangnam</b>		63,858		63,858
		<b>Pyongyang</b>	168,413	2,734,731	65,828	2,968,972
		<b>Sangwon</b>			153,498	153,498
		<b>Unjong</b>		46,919		46,919
	<b>Yanggang-do</b>	<b>Baekam</b>			66,377	66,377
		<b>Bochon</b>			33,683	33,683
		<b>Hyesan</b>			123,319	123,319
		<b>Kapsan</b>			66,444	66,444
		<b>Kimhyonggwon</b>			41,994	41,994
		<b>Kimhyongjik</b>	53,009			53,009
		<b>Kimjongsuk</b>	26,660	13,399		40,059
		<b>Phungso</b>			46,661	46,661
		<b>Samjiyon</b>	2,130	20,204	12,800	35,134
		<b>Samsu</b>		3,980	138,227	142,207
		<b>Taehongdan</b>			39,726	39,726
		<b>Unhung</b>			58,748	58,748
<b>DEM PEOPLE'S REP OF KOREA - TOT</b>				6,931,976	4,973,538	12,757,183
<b>JAPAN</b>	<b>Kagosima</b>	<b>Amagityoo</b>	6,203			6,203
		<b>Isentyoo</b>	6,630			6,630
		<b>Setootityoo</b>	254			254
		<b>Tinatyoo</b>	6,542			6,542
		<b>Tokunosimatyoo</b>	10,034			10,034
		<b>Tosimamura</b>	15			15
		<b>Ukenson</b>	2			2
		<b>Wadomarityoo</b>	5,788			5,788
		<b>Yorontyoo</b>	3,988			3,988
	<b>Nagasaki</b>	<b>Arikawatyoo</b>	3,389			3,389
		<b>Hiradosi</b>	15,206			15,206
		<b>Hukuesi</b>	21,249			21,249
		<b>Iduharamati</b>	10,662			10,662
		<b>Ikitukityoo</b>	5,390			5,390
		<b>Kamiagatatyoo</b>	3,155			3,155
		<b>Kamigootyoo</b>	4,828			4,828
		<b>Kamitusimatyoo</b>	4,076			4,076
		<b>Kisikutyoo</b>	2,956			2,956
		<b>Kosazatyoo</b>	528			528
		<b>Miirakutyoo</b>	2,451			2,451
		<b>Minetyoo</b>	2,548			2,548
		<b>Mitusimatyoo</b>	6,214			6,214
		<b>Naraotyoo</b>	1,721			1,721
		<b>Narutyoo</b>	1,834			1,834
		<b>Odikatyoo</b>	2,104			2,104
		<b>Oosimamura</b>	1,735			1,735
		<b>Sakitotyoo</b>	213			213
		<b>Sasebosi</b>	201			201
		<b>Sikamatityoo</b>	45			45
		<b>Sin'uonometryoo</b>	3,501			3,501
		<b>Tabiratyoo</b>	1,456			1,456
		<b>Tamanooratyoo</b>	1,344			1,344
		<b>Tomietyoo</b>	3,749			3,749
		<b>Toyotamatyoo</b>	4,637			4,637
		<b>Ukumati</b>	2,793			2,793
		<b>Wakamatutyoo</b>	2,213			2,213
		<b>Okinawa</b>	<b>Agunison</b>	853		
	<b>Ginowansi</b>		76,720			76,720
	<b>Ginozason</b>		5,471			5,471
	<b>Gusikamison</b>		7,670			7,670
	<b>Gusikawasi</b>		69,904			69,904

		<b>Gusikawason</b>		4,012		4,012
		<b>Gusukubetyoo</b>			7,753	7,753
		<b>Haebarutyoo</b>	32,606			32,606
		<b>Higasion</b>	1,763			1,763
		<b>Hirarasi</b>			29,255	29,255
		<b>Ileson</b>	4,480			4,480
		<b>Iheyason</b>	1,073			1,073
		<b>Irabutyoo</b>			2,084	2,084
		<b>Isigakisi</b>	46,036			46,036
		<b>Isikawasi</b>	26,043			26,043
		<b>Itomansi</b>	45,503			45,503
		<b>Izenason</b>	1,340			1,340
		<b>Kadenatyoo</b>	12,447			12,447
		<b>Katurentyoo</b>	10,569			10,569
		<b>Kintyoo</b>	11,265			11,265
		<b>Kitanakagusukuson</b>	15,909			15,909
		<b>Kotindatyoo</b>	15,910			15,910
		<b>Kunigamison</b>	3,452			3,452
		<b>Motobutyoo</b>	10,109			10,109
		<b>Nagosi</b>	54,424			54,424
		<b>Nahasi</b>	263,847			263,847
		<b>Nakagusukuson</b>	16,523			16,523
		<b>Nakazatoson</b>		3,455		3,455
		<b>Nakizinson</b>	6,137			6,137
		<b>Name Unknown</b>				
		<b>Nisiharatyoo</b>	33,878			33,878
		<b>Okinawasi</b>	127,985			127,985
		<b>Onnason</b>	3,471			3,471
		<b>Oogimison</b>	1,459			1,459
		<b>Oozatoson</b>	11,166			11,166
		<b>Sasikityoo</b>	6,334			6,334
		<b>Simozityoo</b>			2,432	2,432
		<b>Tamagusukuson</b>	9,761			9,761
		<b>Taramason</b>		135		135
		<b>Tinenson</b>	3,011			3,011
		<b>Tokasikison</b>	553			553
		<b>Tomigusukuson</b>	49,881			49,881
		<b>Tonakison</b>	6			6
		<b>Tyatantyoo</b>	21,409			21,409
		<b>Uenoson</b>			3,181	3,181
		<b>Urasoesi</b>	106,985			106,985
		<b>Yomitanson</b>	36,892			36,892
		<b>Yonabarutyoo</b>	16,610			16,610
		<b>Yonagunityoo</b>	386			386
		<b>Yonasirotyoo</b>	9,620			9,620
		<b>Zamamison</b>	711			711
	<b>JAPAN - TOT</b>		1,329,826	7,602	44,705	1,382,133
	<b>PHILIPPINES</b>	<b>Region II (Cagayan Valley)</b>				
		<b>Batanes</b>	4,602			4,602
		<b>Cagayan</b>	1			1
	<b>PHILIPPINES - TOT</b>		4,603			4,603
	<b>REPUBLIC OF KOREA</b>	<b>Cheju-do</b>	---	177,151	302,112	479,263
		<b>Chollabuk-do</b>	533,283	920,151	317,686	1,771,120
		<b>Chollanam-do</b>	753,740	1,216,943	549,944	2,520,627
		<b>Chungchongbuk-do</b>	1,737,751			1,737,751
		<b>Chungchongnam-do</b>	562,628	766,036	631,179	1,959,843
		<b>Inchon</b>	---		2,384,314	2,384,314
		<b>Kang-won-do</b>	1,419,262	15,333	61,115	1,495,710
		<b>Kwangju</b>	---	602,818		602,818
		<b>Kyonggi-do</b>	1,095,317	4,327,123	6,464,689	11,887,129
		<b>Kyongsangbuk-do</b>	2,698,403			2,698,403
		<b>Kyongsangnam-do</b>	4,646,987			4,646,987
		<b>Pusan</b>	2,806,945			2,806,945
		<b>Seoul</b>	---	1,282,541	8,232,303	9,514,844
		<b>Taegu</b>	2,327,445			2,327,445
		<b>Taejon</b>	1,208,648	88,623		1,297,271
	<b>REPUBLIC OF KOREA - TOT</b>		19,790,409	9,396,719	18,943,342	48,130,470
	<b>RUSSIAN FEDERATION</b>	<b>Khabarovskiy Kray</b>	---	27,310		27,310

	<b>Primorskiy Krai</b>	---	1,290,383	190,029	353,969	1,834,381
	<b>Yevreyskaya A. Oblast</b>	---	492			492
<b>RUSSIAN FEDERATION - TOT</b>			1,318,185	190,029	353,969	1,862,183
<b>All - TOT</b>			77,799,804	14,956,551	34,541,184	127,297,539

