



## LINGLING-19 - Population Exposure Estimation based on bulletin n. 22

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 07-09-2019 at 08:31 UTC  
 Contact: [hq.gis@wfp.org](mailto:hq.gis@wfp.org)

admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Heilongjiang Sheng	Harbin	10,526,823	54,807	6	10,581,636	
		Hegang	1,097,857			1,097,857	
		Jiamusi	2,579,477			2,579,477	
		Jixi	1,879,860			1,879,860	
		Mudanjiang	2,656,531	251,824		2,908,355	
		Qitaihe	840,062			840,062	
		Shuangyashan	1,607,020			1,607,020	
		Suihua	223,760			223,760	
		Yichun	1,081,333			1,081,333	
	Jiangsu Sheng	Nantong	1,332,346			1,332,346	
	Jilin Sheng	Baishan		32,855	1,314,912	1,347,767	
		Changchun	7,666,291	2,177		7,668,468	
		Jilin	1,314,360	2,487,205	775,701	4,577,266	
		Liaoyuan	1,099,747	76,565		1,176,312	
		Siping	2,828,481			2,828,481	
		Songyuan	451,128			451,128	
		Tonghua	12,188	1,919,779	457,836	2,389,803	
		Yanbian Korean	740,620	936,613	651,405	2,328,638	
		Liaoning Sheng	Anshan	3,064,300			3,064,300
	Benxi		1,392,262	315,488	1,972	1,709,722	
	Dalian		5,889,697			5,889,697	
	Dandong		778,270	1,717,798	3,970	2,500,038	
	Fushun		2,024,519	170,011		2,194,530	
	Liaoyang		1,957,173			1,957,173	
	Name Unknown		1,154,688			1,154,688	
	Shenyang		6,647,604			6,647,604	
	Tieling		2,375,532			2,375,532	
	Shandong Sheng	Qingdao	2,873,163			2,873,163	
		Weihai	2,730,822			2,730,822	
		Yantai	4,410,632			4,410,632	
	Shanghai Shi	Name Unknown	2,092,076			2,092,076	
		Shanghai	3,957,941			3,957,941	
	Zhejiang Sheng	Ningbo	479,565			479,565	
		Taizhou	40,103			40,103	
		Zhoushan	890,793			890,793	
	CHINA - TOT			80,697,024	7,965,122	3,205,802	91,867,948
	DEM PEOPLE'S REP OF KOREA	Chagang-do	Chosan			42,471	42,471
			Huichon			93,157	93,157
			Hwaphyong			49,848	49,848
			Janggong			68,081	68,081
			Jasong			54,881	54,881
			Jonchon			117,651	117,651
			Junggang			41,733	41,733
			Kanggye			254,374	254,374
			Kopung			38,897	38,897
			Manpo			122,095	122,095
			Rangrim			35,811	35,811
Ryongrim					42,056	42,056	

	<b>Sijung</b>			49,666	49,666
	<b>Songgan</b>			102,439	102,439
	<b>Songwon</b>			28,560	28,560
	<b>Tongsin</b>			134,708	134,708
	<b>Usi</b>			36,124	36,124
	<b>Wiwon</b>			72,680	72,680
<b>Hamgyong-bukto</b>	<b>Chongjin</b>	697,067			697,067
	<b>Hoiryong</b>	193,167	224		193,391
	<b>Hwadae</b>	65,677			65,677
	<b>Hwasong</b>	114,834			114,834
	<b>Kilju</b>	137,555			137,555
	<b>Kimchaek</b>	212,068			212,068
	<b>Kyongsong</b>	134,647			134,647
	<b>Musan</b>	23,263	103,381		126,644
	<b>Myongchon</b>	29,854			29,854
	<b>Onsong</b>	105,811			105,811
	<b>Orang</b>	146,584	109		146,693
	<b>Puryong</b>	44,468			44,468
	<b>Puyun</b>	7,512			7,512
	<b>Rajin</b>	117,049			117,049
	<b>Saepyol</b>	98,240			98,240
	<b>Sonbong</b>	90,884			90,884
	<b>Undok</b>	105,591			105,591
	<b>Yonsa</b>	2,917	39,588		42,505
	<b>Hamgyong-namdo</b>	<b>Bujon</b>		709	50,710
<b>Danchon</b>		360,602	24,195		384,797
<b>Doksong</b>			104,176		104,176
<b>Hamhung</b>			838,291		838,291
<b>Hamju</b>			60,621	59,693	120,314
<b>Hochon</b>		9,966	77,439		87,405
<b>Hongwon</b>			155,391		155,391
<b>Jangjin</b>				69,107	69,107
<b>Jongpyong</b>			74,369	108,537	182,906
<b>Kowon</b>			1,521	57,426	58,947
<b>Kumho</b>			6,011		6,011
<b>Kumya</b>			106,438	120,325	226,763
<b>Pukchong</b>		3,777	176,895		180,672
<b>Rakwon</b>			53,480		53,480
<b>Riwon</b>		111,068	17,010		128,078
<b>Sinhung</b>			59,739	66,578	126,317
<b>Sinpo</b>			192,042		192,042
<b>Sudong</b>				96,833	96,833
<b>Yodok</b>				43,340	43,340
<b>Yonggwan</b>			28,045	94,645	122,690
<b>Hwanghae-bukto</b>	<b>Bongsan</b>			258,267	258,267
	<b>Hwangju</b>			194,048	194,048
	<b>Koksan</b>			130,241	130,241
	<b>Kumchon</b>			83,953	83,953
	<b>Pyongsan</b>			138,349	138,349
	<b>Rinsan</b>			102,656	102,656
	<b>Sariwon</b>			203,576	203,576
	<b>Singye</b>			75,160	75,160
	<b>Sinpyong</b>			76,952	76,952
	<b>Sohung</b>			119,066	119,066
	<b>Songrim</b>			50,938	50,938
	<b>Suan</b>			71,036	71,036
	<b>Tosan</b>		15,336	56,113	71,449
	<b>Unpa</b>			94,573	94,573
	<b>Yonsan</b>			77,226	77,226
<b>Yontan</b>			119,160	119,160	
<b>Hwanghae-namdo</b>	<b>Anak</b>			129,864	129,864
	<b>Baechon</b>			167,817	167,817
	<b>Bongchon</b>			88,638	88,638
	<b>Byksong</b>			111,064	111,064

			96,995	96,995
			141,059	141,059
			42,541	42,541
			291,944	291,944
			311,056	311,056
			150,110	150,110
			88,113	88,113
			108,090	108,090
			77,220	77,220
			57,780	57,780
			142,594	142,594
			60,915	60,915
			85,321	85,321
			80,698	80,698
			124,249	124,249
			91,255	91,255
			39,603	39,603
			62,404	62,404
			117,659	117,659
			124,611	124,611
			269,367	269,367
			178,244	178,244
	<b>Kaesong-si</b>		48,591	28,086
				76,677
				59,442
				59,442
				42,715
				42,715
				216,226
			9,865	226,091
	<b>Kangwon-do</b>		99,981	99,981
			22,787	10,506
			33,293	33,293
		5,517	52,033	57,550
			58,988	1,600
			60,588	60,588
			22,124	84,327
			106,451	106,451
			57,759	57,759
			28,474	32,458
			60,932	60,932
			50,037	50,037
			103,204	103,204
		46,505	3,349	49,854
		37,804	13,760	51,564
			94,532	35
			94,567	94,567
			33,848	20,698
			54,546	54,546
			102,296	102,296
			68,641	68,641
			87,101	87,101
			259,340	259,340
	<b>P'yongan-bukto</b>			177,819
			177,819	177,819
			18,497	22,500
			40,997	40,997
			24,580	7,629
			32,209	32,209
			97,999	97,999
			46,546	492
			47,038	47,038
			19,159	55,988
			75,147	75,147
			117,371	117,371
				32,342
				32,342
				197,907
				197,907
				165,983
				165,983
			884	195,183
			196,067	196,067
				114,592
				114,592
				128,571
				128,571
			160,642	160,642
				160,642
			72,261	72,261
				72,261
			169,762	169,762
				169,762
			328,917	328,917
				328,917
			99,448	29,262
				128,710
				128,710
				129,211
				129,211
				35,950
				35,950
			129,807	129,807
				129,807

		<b>Unjon</b>			109,875	109,875
		<b>Unsan</b>			113,456	113,456
		<b>Yomju</b>		141,836		141,836
	<b>P'yongan-namdo</b>	<b>Anju</b>			177,166	177,166
		<b>Bukchang</b>			194,234	194,234
		<b>Chongnam</b>			38,854	38,854
		<b>Daedong</b>			114,862	114,862
		<b>Daehung</b>			34,756	34,756
		<b>Dokchon</b>			241,074	241,074
		<b>Dukjang</b>			13,330	13,330
		<b>Hoichang</b>			95,597	95,597
		<b>Jungsan</b>			138,101	138,101
		<b>Kaechon</b>			322,478	322,478
		<b>Maengsan</b>			48,894	48,894
		<b>Mundok</b>			200,111	200,111
		<b>Nyongwon</b>			32,232	32,232
		<b>Onchon</b>			159,607	159,607
		<b>Pyongsong</b>			290,036	290,036
		<b>Pyongwon</b>			182,732	182,732
		<b>Sinyang</b>			58,223	58,223
		<b>Songchan</b>			177,379	177,379
		<b>Sukchon</b>			191,854	191,854
		<b>Sunchon</b>			321,984	321,984
		<b>Unsan</b>			226,481	226,481
		<b>Yangdok</b>			64,335	64,335
	<b>P'yongyang-si</b>	<b>Chunghwa</b>			98,029	98,029
		<b>Kangdong</b>			242,830	242,830
		<b>Kangnam</b>			64,968	64,968
		<b>Pyongyang</b>			2,965,269	2,965,269
		<b>Sangwon</b>			152,923	152,923
		<b>Unjong</b>			47,614	47,614
	<b>Yanggang-do</b>	<b>Baekam</b>	1,095	65,309		66,404
		<b>Bochon</b>		33,988		33,988
		<b>Hyesan</b>		138,398		138,398
		<b>Kapsan</b>		67,333		67,333
		<b>Kimhyonggwon</b>		42,071		42,071
		<b>Kimhyongjik</b>			51,402	51,402
		<b>Kimjongsuk</b>			41,692	41,692
		<b>Phungso</b>		43,455	3,178	46,633
		<b>Samjiyon</b>		31,487	3,402	34,889
		<b>Samsu</b>		106,803	24,166	130,969
		<b>Taehongdan</b>		40,077		40,077
		<b>Unhung</b>		58,773		58,773
<b>DEM PEOPLE'S REP OF KOREA - TOT</b>			2,903,522	5,407,123	16,275,597	24,586,242
<b>JAPAN</b>	<b>Nagasaki</b>	<b>Hukuesi</b>				
		<b>Kamiagatatyoo</b>	1			1
		<b>Miirakutyoo</b>	78			78
	<b>Okinawa</b>	<b>Agunison</b>	846			846
		<b>Ginowansi</b>	81,000			81,000
		<b>Ginozason</b>	5,471			5,471
		<b>Gusikamison</b>	7,377			7,377
		<b>Gusikawasi</b>	69,846			69,846
		<b>Gusikawason</b>		4,190		4,190
		<b>Gusukubetyoo</b>			7,832	7,832
		<b>Haebarutyoo</b>	33,918			33,918
		<b>Higasison</b>	1,333			1,333
		<b>Hirarasi</b>			28,837	28,837
		<b>Ieson</b>	4,463			4,463
		<b>Iheyason</b>	1,107			1,107
		<b>Irabutyoo</b>			2,080	2,080
		<b>Isigakisi</b>		46,574		46,574
		<b>Isikawasi</b>	22,433			22,433
		<b>Itomansi</b>	46,059			46,059
		<b>Izenason</b>	1,391			1,391

		<b>Kadenatyoo</b>	12,295			12,295
		<b>Katurentyoo</b>	9,214			9,214
		<b>Kintyoo</b>	14,458			14,458
		<b>Kitanakagusukuson</b>	16,438			16,438
		<b>Kotindatyoo</b>	15,262			15,262
		<b>Kunigamison</b>	2,789			2,789
		<b>Motobutyoo</b>	10,341			10,341
		<b>Nagosi</b>	54,500			54,500
		<b>Nahasi</b>	250,640			250,640
		<b>Nakagusukuson</b>	18,698			18,698
		<b>Nakazatoson</b>		3,372		3,372
		<b>Nakizinson</b>	6,315			6,315
		<b>Nisiharatyoo</b>	33,878			33,878
		<b>Okinawasi</b>	128,084			128,084
		<b>Onnason</b>	3,283			3,283
		<b>Oogimison</b>	1,803			1,803
		<b>Oozatoson</b>	11,525			11,525
		<b>Sasikityoo</b>	6,359			6,359
		<b>Simozityoo</b>			2,650	2,650
		<b>Tamagusukuson</b>	10,382			10,382
		<b>Taramason</b>			131	131
		<b>Tinenson</b>	3,271			3,271
		<b>Tokasikison</b>	663			663
		<b>Tomigusukuson</b>	52,726			52,726
		<b>Tonakison</b>	6			6
		<b>Tyatantyoo</b>	20,880			20,880
		<b>Uenoson</b>			3,249	3,249
		<b>Uraoesi</b>	107,290			107,290
		<b>Yomitanson</b>	37,050			37,050
		<b>Yonabarutyoo</b>	14,805			14,805
		<b>Yonagunityoo</b>	392			392
		<b>Yonasirotyoo</b>	9,529			9,529
		<b>Zamamison</b>	711			711
<b>JAPAN - TOT</b>			1,128,910	54,136	44,779	1,227,825
<b>PHILIPPINES</b>	<b>Region II (Cagayan Valley)</b>	<b>Batanes</b>	5,000			5,000
		<b>Cagayan</b>	5			5
<b>PHILIPPINES - TOT</b>			5,005			5,005
<b>REPUBLIC OF KOREA</b>	<b>Cheju-do</b>	---	29,878	463,980		493,858
	<b>Chollabuk-do</b>	---	14,982	1,760,078	37	1,775,097
	<b>Chollanam-do</b>	---	655,325	1,812,102	16,030	2,483,457
	<b>Chungchongbuk-do</b>	---	487,487	1,256,933		1,744,420
	<b>Chungchongnam-do</b>	---		1,809,752	161,302	1,971,054
	<b>Inchon</b>	---		2,342,776	10,999	2,353,775
	<b>Kang-won-do</b>	---	1,359,796	117,379		1,477,175
	<b>Kwangju</b>	---		631,855		631,855
	<b>Kyonggi-do</b>	---	30,227	11,797,708	69,396	11,897,331
	<b>Kyongsangbuk-do</b>	---	2,692,969			2,692,969
	<b>Kyongsangnam-do</b>	---	4,637,115			4,637,115
	<b>Pusan</b>	---	2,798,835			2,798,835
	<b>Seoul</b>	---		9,527,543		9,527,543
	<b>Taegu</b>	---	2,327,483			2,327,483
	<b>Taejon</b>	---		1,281,469		1,281,469
<b>REPUBLIC OF KOREA - TOT</b>			15,034,097	32,801,575	257,764	48,093,436
<b>RUSSIAN FEDERATION</b>	<b>Amurskaya Oblast</b>	---	3,217			3,217
	<b>Khabarovskiy Kray</b>	---	753,359			753,359
	<b>Primorskiy Kray</b>	---	612,930			612,930
	<b>Yevreyskaya A. Oblast</b>	---	177,623			177,623
<b>RUSSIAN FEDERATION - TOT</b>			1,547,129			1,547,129
<b>All - TOT</b>			101,315,687	46,227,956	19,783,942	167,327,585