



LINGLING-19 - Population Exposure Estimation based on bulletin n. 18

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 06-09-2019 at 09:01 UTC
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admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Heilongjiang Sheng	Harbin	1,408,656			1,408,656	
		Mudanjiang	816,151			816,151	
	Jiangsu Sheng	Nantong	205,900			205,900	
	Jilin Sheng	Baishan	92,832	239,528	1,052,171	1,384,531	
		Changchun	7,407,705			7,407,705	
		Jilin	2,735,040	1,040,676	776,694	4,552,410	
		Liaoyuan	1,176,987			1,176,987	
		Siping	2,321,718			2,321,718	
		Songyuan	204,096			204,096	
		Tonghua	775,699	1,296,952	345,146	2,417,797	
		Yanbian Korean	1,875,528	127,642	4,564	2,007,734	
		Liaoning Sheng	Anshan	2,746,385			2,746,385
			Benxi	1,654,193	52,145		1,706,338
	Dalian		5,814,725			5,814,725	
	Dandong		2,465,680	40,382	87	2,506,149	
	Fushun		2,180,757			2,180,757	
	Liaoyang		1,639,989			1,639,989	
	Name Unknown		514,637			514,637	
	Shenyang		5,984,162			5,984,162	
	Shandong Sheng	Tieling	2,024,203			2,024,203	
		Weihai	2,770,526			2,770,526	
		Yantai	1,986,676			1,986,676	
	Shanghai Shi	Name Unknown	136,298			136,298	
	Zhejiang Sheng	Ningbo	280,767			280,767	
		Taizhou	24,915			24,915	
		Zhoushan	891,969			891,969	
	CHINA - TOT		50,136,194	2,797,325	2,178,662	55,112,181	
	DEM PEOPLE'S REP OF KOREA	Chagang-do	Chosan		3,467	38,982	42,449
			Huichon			125,759	125,759
			Hwaphyong		2	50,441	50,443
Janggang					61,127	61,127	
Jasong					52,447	52,447	
Jonchon					118,490	118,490	
Junggang					38,801	38,801	
Kanggye					260,758	260,758	
Kopung					38,809	38,809	
Manpo					89,622	89,622	
Rangrim				18,785	16,284	35,069	
Ryongrim					41,276	41,276	
Sijung					50,006	50,006	
Songgan					102,440	102,440	
Songwon					28,448	28,448	
Tongsin					101,636	101,636	
Usi				20,855	16,273	37,128	
Wiwon					71,250	71,250	
Hamgyong-bukto			Chongjin	627,814			627,814
			Hoiryong	156,594			156,594
		Hwadae	65,803			65,803	
		Hwasong	115,070			115,070	
		Kilju	137,860			137,860	
		Kimchaek	214,657			214,657	
		Kyongsong	133,534			133,534	
		Musan	123,942			123,942	
		Myongchon	29,385			29,385	
		Onsong	11,559			11,559	
Orang		148,957			148,957		
Puryong		44,528			44,528		

	Puyun	7,091			7,091
	Yonsa	42,028			42,028
Hamgyong-namdo	Bujon	36,052	15,543		51,595
	Danchon	379,342			379,342
	Doksong	104,043			104,043
	Hamhung	837,668			837,668
	Hamju	99,377	15,239		114,616
	Hochon	92,065			92,065
	Hongwon	155,079			155,079
	Jangjin		68,826	197	69,023
	Jongpyong	152,000	38,719		190,719
	Kowon	102	65,924		66,026
	Kumho	7,966			7,966
	Kumya	98,377	121,537		219,914
	Pukchong	180,950			180,950
	Rakwon	57,293			57,293
	Riwon	126,843			126,843
	Sinhung	122,211	2,329		124,540
	Sinpo	191,488			191,488
	Sudong		96,922		96,922
	Yodok		39,882	3,728	43,610
	Yongwan	90,719	33,690		124,409
Hwanghae-bukto	Bongsan			221,613	221,613
	Hwangju			175,647	175,647
	Koksan		128,283	25	128,308
	Kumchon		81,222		81,222
	Pyongsan		23,595	114,301	137,896
	Rinsan			94,711	94,711
	Sariwon			242,526	242,526
	Singye		65,536	6,032	71,568
	Sinpyong		71,047	6,440	77,487
	Sohung			117,678	117,678
	Songrim			72,414	72,414
	Suan		18,001	57,037	75,038
	Tosan		71,717		71,717
	Unpa			101,972	101,972
	Yonsan		70	77,385	77,455
	Yontan			115,128	115,128
Hwanghae-namdo	Anak			129,900	129,900
	Baechon		44,261	125,015	169,276
	Bongchon		10,605	78,108	88,713
	Byksong			111,818	111,818
	Chollima			98,584	98,584
	Chongdan			141,510	141,510
	Daean			45,420	45,420
	Haeju			286,167	286,167
	Hanggu			211,574	211,574
	Jaeryong			147,831	147,831
	Jangyon			88,968	88,968
	Kangryong			106,768	106,768
	Kangso			77,263	77,263
	Kwail		242	60,097	60,339
	Ongjin			146,735	146,735
	Ryonggang			66,822	66,822
	Ryongyon			86,727	86,727
	Samchon			80,071	80,071
	Sinchon			123,128	123,128
	Sinwon			90,841	90,841
	Songhwa			35,952	35,952
	Taetan			61,903	61,903
	Unchon			118,456	118,456
	Unryul			126,151	126,151
	Waldo			373,697	373,697
	Yonan			174,950	174,950
Kaesong-si	Jangpung		76,270		76,270
	Kaepung		63,620		63,620
	Kaesong		60,996		60,996
	Panmun		202,427		202,427
Kangwon-do	Anbyon	99,335			99,335
	Bopdong	5,858	27,056		32,914
	Changdo	55,863			55,863
	Cholwon	15,042	44,605		59,647
	Chonnae	14,718	93,151		107,869

	Hoiyang	59,916			59,916
	Ichon		60,623		60,623
	Kimhwa	48,538			48,538
	Kosan	103,905			103,905
	Kosong	52,683			52,683
	Kumgang	50,054			50,054
	Munchon	129,364	1,408		130,772
	Pangyo	1,241	53,366		54,607
	Pyonggang	102,886	593		103,479
	Sepo	68,751	158		68,909
	Tongchon	84,607			84,607
	Wonsan	303,674	129		303,803
P'yongan-bukto	Bakchon			175,563	175,563
	Byokdong		39,910	117	40,027
	Changsong	132	32,345		32,477
	Cholsan	82,815	17,864		100,679
	Chonma	15,125	30,761		45,886
	Daegwan		74,764		74,764
	Dongrim	75,432	37,902		113,334
	Hyangsan			30,909	30,909
	Jongju		170,038	27,831	197,869
	Kujang			171,554	171,554
	Kusong		197,497	26	197,523
	Kwaksan		109,873	98	109,971
	Nyongbyon			128,444	128,444
	Pihyon	141,323			141,323
	Ryongchon	73,498			73,498
	Sakju	57,839	109,474		167,313
	Sinuiju	342,005			342,005
	Sonchon		131,536		131,536
	Taechon		4,139	126,841	130,980
	Tongchang		7,000	29,310	36,310
	Uiju	129,093			129,093
	Unjon			110,791	110,791
	Unsan			113,781	113,781
Yomju	139,186			139,186	
P'yongan-namdo	Anju			176,206	176,206
	Bukchang			191,783	191,783
	Chongnam			42,527	42,527
	Daedong			115,766	115,766
	Daehung		30,894	3,551	34,445
	Dokchon			242,674	242,674
	Dukjang			13,985	13,985
	Hoichang		500	94,531	95,031
	Jungsan			137,905	137,905
	Kaechon			312,664	312,664
	Maengsan		7	48,582	48,589
	Mundok			196,142	196,142
	Nyongwon		155	31,961	32,116
	Onchon			161,667	161,667
	Pyongsong			290,268	290,268
	Pyongwon			180,780	180,780
	Sinyang		305	56,345	56,650
	Songchan			176,724	176,724
	Sukchon			191,923	191,923
	Sunchon			330,560	330,560
Unsan			217,192	217,192	
Yangdok		24,459	40,133	64,592	
P'yongyang-si	Chunghwa			95,050	95,050
	Kangdong			234,580	234,580
	Kangnam			59,102	59,102
	Pyongyang			2,968,442	2,968,442
	Sangwon			151,988	151,988
Yanggang-do	Unjong			48,443	48,443
	Baekam	66,177			66,177
	Bochon	32,797			32,797
	Hyesan	117,007			117,007
	Kapsan	66,512			66,512
	Kimhyonggwon	41,648			41,648
	Kimhyongjik		21,652	33,724	55,376
	Kimjongsuk	19,240	23,588		42,828
	Phungso	46,999	3		47,002
	Samjiyon	34,957			34,957

		Samsu	117,806			117,806
		Taehongdan	39,460			39,460
		Unhung	57,641			57,641
DEM PEOPLE'S REP OF KOREA - TOT			7,483,524	2,805,367	13,664,602	23,953,493
JAPAN	Nagasaki	Hukuesi				
		Okinawa				
		Agunison	852			852
		Ginowansi	67,951			67,951
		Ginozason	5,283			5,283
		Gusikamison	5,497			5,497
		Gusikawasi	55,434			55,434
		Gusikawason		4,069		4,069
		Gusukubetyoo			7,043	7,043
		Haebarutyoo	33,478			33,478
		Higasion	1,400			1,400
		Hirarasi			25,337	25,337
		Ieson	4,573			4,573
		Iheyason	1,026			1,026
		Irabutyoo			2,566	2,566
		Isigakisi		43,630		43,630
		Isikawasi	26,389			26,389
		Itomansi	27,830			27,830
		Izenason	1,191			1,191
		Kadenatyoo	5,000			5,000
		Katurentyoo	13,161			13,161
		Kintyoo	10,873			10,873
		Kitanakagusukuson	14,240			14,240
		Kotindatyoo	16,401			16,401
		Kunigamison	1,847			1,847
		Motobutyoo	8,460			8,460
		Nagosi	53,196			53,196
		Nahasi	254,081			254,081
		Nakagusukuson	11,943			11,943
		Nakazatoson		3,552		3,552
		Nakizinson	6,686			6,686
		Name Unknown				
		Nisiharatyoo	27,078			27,078
		Okinawasi	133,910			133,910
		Onnason	1,488			1,488
		Oogimison	1,556			1,556
		Oozatoson	8,331			8,331
		Sasikityoo	8,006			8,006
		Simozityoo			3,247	3,247
		Tamagusukuson	9,793			9,793
		Taramason			121	121
	Tinenson	2,659			2,659	
	Tokasikison	308			308	
	Tomigusukuson	49,698			49,698	
	Tonakison					
	Tyatantyoo	25,583			25,583	
	Uenoson			2,967	2,967	
	Urasoesi	106,858			106,858	
	Yomitanson	42,049			42,049	
	Yonabarutyoo	15,774			15,774	
	Yonagunityoo	369			369	
	Yonasirotyoo	6,877			6,877	
	Zamamison	406			406	
JAPAN - TOT			1,067,535	51,251	41,281	1,160,067
PHILIPPINES	Region II (Cagayan Valley)	Batanes	2,188			2,188
		Cagayan	7			7
PHILIPPINES - TOT			2,195			2,195
REPUBLIC OF KOREA	Cheju-do	---		465,040		465,040
	Chollabuk-do	---	1,249,774	519,675		1,769,449
	Chollanam-do	---	853,547	1,669,273	12,266	2,535,086
	Chungchongbuk-do	---	1,730,297			1,730,297
	Chungchongnam-do	---	1,322,276	703,856	1,548	2,027,680
	Inchon	---		2,400,115		2,400,115
	Kang-won-do	---	1,536,183			1,536,183
	Kwangju	---	12,115	556,231		568,346
	Kyonggi-do	---	8,148,306	3,763,016	13,964	11,925,286
	Kyongsangbuk-do	---	1,998,722			1,998,722
	Kyongsangnam-do	---	3,143,656			3,143,656
	Pusan	---	101,798			101,798
	Seoul	---	7,883,424	1,494,085		9,377,509

	Taegu	---	2,321,404			2,321,404
	Taejon	---	1,245,000			1,245,000
REPUBLIC OF KOREA - TOT			31,546,502	11,571,291	27,778	43,145,571
All - TOT			90,235,950	17,225,234	15,912,323	123,373,507