



LINGLING-19 - Population Exposure Estimation based on bulletin n. 13

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 05-09-2019 at 03:18 UTC
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admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Heilongjiang Sheng	Harbin	31,665			31,665	
		Mudanjiang	229,527			229,527	
	Jiangsu Sheng	Nantong	5,320,070			5,320,070	
		Suzhou	4,225,086			4,225,086	
		Yancheng	280,657			280,657	
	Jilin Sheng	Baishan	1,348,400			1,348,400	
		Changchun	184,777			184,777	
		Jilin	4,176,604			4,176,604	
		Liaoyuan	526,688			526,688	
		Siping	51,066			51,066	
		Tonghua	2,389,878			2,389,878	
		Yanbian Korean	2,013,530			2,013,530	
	Liaoning Sheng	Anshan	389,692			389,692	
		Benxi	644,814			644,814	
		Dalian	858,015			858,015	
		Dandong	2,499,895			2,499,895	
		Fushun	559,160			559,160	
		Liaoyang	27			27	
		Tieling	17,814			17,814	
	Shandong Sheng	Weihai	2,541,133			2,541,133	
		Yantai	114,496			114,496	
	Shanghai Shi	Name Unknown	4,262,039			4,262,039	
		Shanghai	19,286,420			19,286,420	
	Zhejiang Sheng	Jiaxing	2,644,902			2,644,902	
		Ningbo	7,494,504			7,494,504	
		Shaoxing	1,408,680			1,408,680	
		Taizhou	5,481,173			5,481,173	
		Wenzhou	421,239			421,239	
		Zhoushan	889,820			889,820	
	CHINA - TOT			70,291,771			70,291,771
	DEM PEOPLE'S REP OF KOREA	Chagang-do	Chosan	42,482			42,482
			Huichon	93,155			93,155
Hwaphyong			49,847			49,847	
Janggang			68,085			68,085	
Jasong			54,881			54,881	
Jonchon			117,578			117,578	
Junggang			41,328			41,328	
Kanggye			254,397			254,397	
Kopung			39,035			39,035	
Manpo			121,817			121,817	
Rangrim			35,810			35,810	
Ryongrim			42,068			42,068	
Sijung			49,916			49,916	
Songgan			102,492			102,492	
Songwon			28,550			28,550	
Tongsin			134,710			134,710	
Usi			36,026			36,026	
Wiwon			72,685			72,685	
Hamgyong-bukto			Chongjin	406,111			406,111

	Hoiryong	191,628			191,628
	Hwadae	22,944			22,944
	Hwasong	108,087			108,087
	Kilju	137,462			137,462
	Kimchaek	211,902			211,902
	Kyongsong	134,447			134,447
	Musan	126,664			126,664
	Myongchon	21,776			21,776
	Onsong	103,554			103,554
	Orang	89,963			89,963
	Puryong	44,471			44,471
	Puyun	7,594			7,594
	Saepyol	329			329
	Undok	41			41
	Yonsa	42,503			42,503
Hamgyong-namdo	Bujon	51,434			51,434
	Danchon	384,828			384,828
	Doksong	104,223			104,223
	Hamhung	838,542			838,542
	Hamju	119,953			119,953
	Hochon	87,298			87,298
	Hongwon	155,190			155,190
	Jangjin	69,085			69,085
	Jongpyong	182,360			182,360
	Kowon	58,845			58,845
	Kumho	6,011			6,011
	Kumya	226,946			226,946
	Pukchong	180,726			180,726
	Rakwon	53,513			53,513
	Riwon	128,089			128,089
	Sinhung	126,328			126,328
	Sinpo	192,148			192,148
	Sudong	96,828			96,828
	Yodok	43,346			43,346
		Yonggwon	122,523		
Hwanghae-bukto	Bongsan	292	257,975		258,267
	Hwangju	1,099	201,670		202,769
	Koksan	130,353			130,353
	Kumchon	84,185			84,185
	Pyongsan	138,288			138,288
	Rinsan	11,075	91,591		102,666
	Sariwon		203,618		203,618
	Singye	75,207			75,207
	Sinpyong	77,106			77,106
	Sohung	92,114	26,848		118,962
	Songrim		42,227		42,227
	Suan	70,984			70,984
	Tosan	71,442			71,442
	Unpa		94,234	415	94,649
	Yonsan	77,221			77,221
	Yontan	22,010	97,162		119,172
Hwanghae-namdo	Anak		4,727	125,129	129,856
	Baechon	159,962	7,839		167,801
	Bongchon	65,271	23,389		88,660
	Byoksong			111,348	111,348
	Chollima	71,107	25,888		96,995
	Chongdan		140,829		140,829
	Daeon		42,706		42,706
	Haeju		122,242	169,750	291,992
	Hanggu		311,056		311,056
	Jaeryong		9,404	140,606	150,010
	Jangyon		51	87,945	87,996
	Kangryong		1,682	107,270	108,952
	Kangso	14,154	63,066		77,220
	Kwail		4,231	53,814	58,045
		Ongjin		142,625	142,625

	Ryonggang		60,700		60,700	
	Ryongyon		9,840	75,605	85,445	
	Samchon			80,703	80,703	
	Sinchon			124,278	124,278	
	Sinwon		76,880	14,360	91,240	
	Songhwa			39,603	39,603	
	Taetan			61,521	61,521	
	Unchon		67,701	50,217	117,918	
	Unryul		6,155	118,416	124,571	
	Waudo		269,328	4,030	273,358	
	Yonan	50,647	127,635		178,282	
Kaesong-si	Jangpung	76,689			76,689	
	Kaepung	59,682			59,682	
	Kaesong	42,721			42,721	
	Panmun	226,024			226,024	
Kangwon-do	Anbyon	100,120			100,120	
	Bopdong	33,236			33,236	
	Changdo	57,462			57,462	
	Cholwon	60,604			60,604	
	Chonnae	106,379			106,379	
	Hoiyang	57,714			57,714	
	Ichon	60,936			60,936	
	Kimhwa	49,986			49,986	
	Kosan	103,198			103,198	
	Kosong	48,310			48,310	
	Kumgang	51,751			51,751	
	Munchon	94,652			94,652	
	Pangyo	54,546			54,546	
	Pyonggang	102,362			102,362	
	Sepo	68,578			68,578	
	Tongchon	87,099			87,099	
	Wonsan	259,360			259,360	
	P'yongan-bukto	Bakchon	179,337			179,337
		Byokdong	40,962			40,962
		Changsong	32,286			32,286
Cholsan		97,939			97,939	
Chonma		47,083			47,083	
Daegwan		75,110			75,110	
Dongrim		117,562			117,562	
Hyangsan		32,342			32,342	
Jongju		197,424			197,424	
Kujang		166,077			166,077	
Kusong		195,880			195,880	
Kwaksan		114,783			114,783	
Nyongbyon		128,112			128,112	
Pihyon		164,068			164,068	
Ryongchon		72,261			72,261	
Sakju		169,687			169,687	
Sinuiju		325,576			325,576	
Sonchon		128,545			128,545	
Taechon		129,603			129,603	
Tongchang		35,983			35,983	
Uiju		129,717			129,717	
Unjon		108,218			108,218	
Unsan		113,725			113,725	
Yomju		141,738			141,738	
P'yongan-namdo		Anju	177,552			177,552
	Bukchang	194,062			194,062	
	Chongnam	38,854			38,854	
	Daedong	114,579			114,579	
	Daehung	34,753			34,753	
	Dokchon	241,074			241,074	
	Dukjang	13,342			13,342	
	Hoichang	95,775			95,775	
	Jungsan	137,922		180	138,102	
	Kaechon	322,642			322,642	

		Maengsan	49,060			49,060	
		Mundok	199,868			199,868	
		Nyongwon	32,232			32,232	
		Onchon	3,470	156,154		159,624	
		Pyongsong	289,972			289,972	
		Pyongwon	182,855			182,855	
		Sinyang	58,388			58,388	
		Songchan	177,268			177,268	
		Sukchon	191,854			191,854	
		Sunchon	321,932			321,932	
		Unsan	226,533			226,533	
		Yangdok	64,333			64,333	
	P'yongyang-si	Chunghwa	68,172	29,676		97,848	
		Kangdong	242,827			242,827	
		Kangnam	15,484	49,484		64,968	
		Pyongyang	2,965,800			2,965,800	
		Sangwon	152,619			152,619	
	Yanggang-do	Unjong	47,614			47,614	
		Baekam	66,399			66,399	
		Bochon	33,990			33,990	
		Hyesan	153,028			153,028	
		Kapsan	67,329			67,329	
		Kimhyonggwon	42,071			42,071	
		Kimhyongjik	51,272			51,272	
		Kimjongsuk	41,574			41,574	
		Phungso	46,631			46,631	
		Samjiyon	34,887			34,887	
		Samsu	116,535			116,535	
		Taehongdan	40,036			40,036	
		Unhung	58,765			58,765	
DEM PEOPLE'S REP OF KOREA - TOT			19,633,851	2,626,168	1,507,635	23,767,654	
JAPAN	Kagosima	Amagityoo	6,439			6,439	
		Isentyoo	6,618			6,618	
		Tinatyoo	6,471			6,471	
		Tokunosimatyoo	9,279			9,279	
		Tosimamura					
		Wadomarityoo	5,918				5,918
		Nagasaki	Yorontyoo	3,981			3,981
			Hukuesi	119			119
			Kisikutyoo	2,684			2,684
			Miirakutyoo	2,026			2,026
			Tamanooratyoo	1,240			1,240
			Tomietyoo	3,120			3,120
		Okinawa	Agunison	846			846
			Ginowansi	81,000			81,000
			Ginozason	5,438			5,438
			Gusikamison	7,377			7,377
			Gusikawasi	69,846			69,846
			Gusikawason	4,190			4,190
			Gusukubetyoo			7,832	7,832
			Haebarutyoo	33,918			33,918
			Higasison	1,755			1,755
			Hirarasi			28,725	28,725
			Ieson	4,463			4,463
			Iheyason	1,181			1,181
			Irabutyoo			2,113	2,113
			Isigakisi	206	46,427		46,633
			Isikawasi	22,433			22,433
			Itomansi	46,059			46,059
		Izenason	1,391			1,391	
		Kadenatyoo	12,295			12,295	
		Katurentyoo	8,701			8,701	
		Kintyoo	14,458			14,458	
	Kitanakagusukuson	16,438			16,438		
	Kotindatyoo	15,262			15,262		
	Kunigamison	4,170			4,170		

		Motobutyoo	10,346			10,346
		Nagosi	54,676			54,676
		Nahasi	250,640			250,640
		Nakagusukuson	18,698			18,698
		Nakazatoson	3,372			3,372
		Nakizinson	6,260			6,260
		Name Unknown				
		Nisiharatyoo	33,878			33,878
		Okinawasi	128,084			128,084
		Onnason	3,283			3,283
		Oogimison	1,803			1,803
		Oozatoson	11,525			11,525
		Sasikityoo	6,359			6,359
		Simozityoo			2,657	2,657
		Tamagusukuson	10,382			10,382
		Taramason			131	131
		Tinenson	3,271			3,271
		Tokasikison	663			663
		Tomigusukuson	52,726			52,726
		Tonakison	6			6
		Tyatantyoo	20,880			20,880
		Uenoson			3,249	3,249
		Urasoesi	107,383			107,383
		Yomitanson	37,050			37,050
		Yonabarutyoo	14,805			14,805
		Yonagunityoo	392			392
		Yonasirotyoo	9,320			9,320
		Zamamison	711			711
JAPAN - TOT			1,185,835	46,427	44,707	1,276,969
PHILIPPINES	Region II (Cagayan Valley)	Batanes	5,000			5,000
		Cagayan	12			12
PHILIPPINES - TOT			5,012			5,012
REPUBLIC OF KOREA		Cheju-do	---	411,746	82,148	493,894
		Chollabuk-do	---	1,774,289		1,774,289
		Chollanam-do	---	2,434,520	48,261	2,483,210
		Chungchongbuk-do	---	1,744,398		1,744,398
		Chungchongnam-do	---	1,969,003	1,935	1,970,938
		Inchon	---	2,356,151		2,356,151
		Kang-won-do	---	933,275		933,275
		Kwangju	---	631,855		631,855
		Kyonggi-do	---	11,885,524	8,967	11,894,592
		Kyongsangbuk-do	---	1,171,532		1,171,532
		Kyongsangnam-do	---	1,765,072		1,765,072
		Seoul	---	9,531,239		9,531,239
		Taegu	---	1,794,189		1,794,189
		Taejon	---	1,281,305		1,281,305
REPUBLIC OF KOREA - TOT			39,684,098	141,311	530	39,825,939
TAIWAN	Taiwan Sheng	Name Unknown	563,212			563,212
TAIWAN - TOT			563,212			563,212
All - TOT			#####	2,813,906	1,552,872	135,730,557