Species_Name	Genus	Location	Lat	Long	Mound density (number per hectare) - mean or range	Max mound density (number per hectare)	Mound height (cm) - mean or range	Max mound height (cm)	Mound diameter (cm) - mean or range	Max mound diameter (cm)	Ant nest depth (cm) - mean or range	Ant nest max depth (cm)	Mounding rate (t ha^{-1} a^{-1}) - mean or range	Nest entrance density (ha^{-1}) mean (max)	Depth of soil excavated (mm pa)	Geomorphological impact 1	Greomorphological impact 2	Notes	Reference
Acromyrmex lobicornis	Acromyrmex	Patagonia, Argentina	-41.11666667	-71.01666667	43		80	80	100	100	10	50				Mounding	Underground nest	85 ant nests studied over area of 20000 m^2	Farji-Brener, 2008
Acromyrmex rugosus rugo:	Acromyrmex	Botucatu, SP, Brazil	-22.899161	-48.512512					10	35	6 (min)	375				Mounding	Underground nest	Mound diameters calculated from areas given in paper: 12 nests studied	Verza et al., 2007
Anoplolepsis steingroveri	Anoplolepsis	Namibia	-25.000029	15.999979								120				Patterned veg	Underground nest	1 nest studied in detail	Picker et al., 2012
Aphaenogaster barbigula	Aphaenogaster	Yathong, NSW, Australia	-32.568184	145.53464			2	10	5 to 8	30			3.36	88000 (400000)	0.28	Bioturbation	Mounding	Mounding rate data from Betard, 2020; Nest entrance data from Richards 2009	Eldridge and Pickard, 1994, Eldridge 1993
Aphaenogaster cockerelli	Aphaenogaster	New Mexico, USA	35.024867	-106.611487	47.30	88.0			50	1						Mounding	Water infiltration	Mound diameters calculated from areas given in paper	James et al., 2008
Aphaenogaster longiceps	Aphaenogaster	Cordeaux, NSW, Australia	-34.418268	150.754593	17100								8.41 (68.38)	16200 (37900)		Bioturbation	Mounding	Data from Richards, 2009 and Loby de Bruyn and Conacher, 1994	Humphreys (1981), Paton et al (1995)
Aphaenogaster longiceps	Aphaenogaster	Cattai, Sydney, Australia	-33.530817	150.946126							20		5-10.7			Bioturbation	Mounding	Data from Richards, 2009	Humphreys and Mitchel (1983), Paton et al (1995)
Aphaenogaster longiceps	Aphaenogaster	Killonbutta, NSW, Australi:	-33.002762	148.781119	1500		2.4	11	13.00	25			0.28	1500 (250000)		Bioturbation	Mounding		Mitchell 1988
Aphaenogaster sp (poss pc	Aphaenogaster	Kellerberrin, WA, Australia	-31.610607	117.687429	2500- 4700								2.23 - 4.65			Bioturbation	Mounding	51 nests studied on sandy soils	Lobry de Bruyn and Conacher 1994
Atta bisphaerica	Atta	Botucatu, SP, Brazil	-22.829578	-48.471864							250	290				Underground nest		14 nests studied	Forti et al., 2018
Atta bisphaerica	Atta	Botucatu, SP, Brazil	-22.829578	-48.471864					1050	1550		250				Underground nest		Mound diameters calculated from areas given in paper (N=16)	Moreira et al., 2004b
Atta cephalotes	Atta	Coimbra forest, NE Brazil	-9	-35.86666667	2.8											Nutrient depletion	Mounding	Density data from Wirth et al, 2007: 43 colonies in 56 ha belt	Meyer et al 2013, Wirth et al 2007
Atta laevigata	Atta	Botucatu, SP, Brazil	-22.899161	-48.512513							700	700				Underground nest		3 nests studied	Moreira et al., 2004a
Atta sexdens	Atta	Coimbra forest, NE Brazil	-9	-35.86666667	2.1											Nutrient depletion	Mounding	37 colonies in 56 ha belt	Wirth et al 2007
Atta sexdens	Atta	Vitoria Ranch, Para, Brazil	-2.98333333	-47.51666667	2.5				960			>400				Mounding	Underground nest	All nests mapped in 25 ha plot. 10 studied in more detail.	Moutinho et al 2002
Atta texana	Atta	N Louisiana, USA	32.246093	-92.961596							320					Mounding	Tree damage circle	One mound measured	Moser, 2006
Atta texana	Atta	Liberty Co, Texas, USA	30.100981	-94.830189			50		240							Bioturbation		One mound measured	Johnson and Johnson, 2010
Atta texana	Atta	Natchitoches, Louisiana, U	31.718829	-93.130697			48		180							Bioturbation		One mound measured	Johnson and Johnson, 2010
Atta vollenweideri	Atta	Formosa, Chaco region, Ar	-26.772023	-60.448836			80		600-800	800						Mounding		Estimated mound dimensions only	Cosarinsky and Roces, 2012
Atta vollenweideri	Atta	Argentina	-25.064375	-58.145695	1 to 2		100		620		600	600				Mounding	Underground nest	One nest measured	Kleineidam et al., 2001
Atta vollenweideri	Atta	Province d Tucuman, Arger	-26.79437	-66.138847									11		0.085	Bioturbation			Bucher and Zuccardi, 1967 (quoted in Lobry de Bruyn and Conacher, 1990)
Camponotus herculaneus	Camponotus	Qinghai-Tibetan Plateau, C	32.8	102.55	6 to 9	9.0	10 (min)		30 - 50	50						Mounding	Nutrient enhancement ;	Estimated mound dimensions only	Wang et al., 2017
Camponotus intrepidus	Camponotus	SE Australia	-33.864917	147.804693									0.19-0.28 (0.05)			Bioturbation			Humphreys, 1985; Cowan et al., 1985
Camponotus japonicus	Camponotus	Yangling City, Shaanxi Prov	34.276618	108.108463			2		20		35.5					Mounding	Sediment release	One mound measured in a lab experiment	Li et al., 2019
Camponotus punctulatus	Camponotus	Chaco, Argentina	-26.772023	-60.448836	500	1152.0	62	185	117	260						Mounding		Ant mounds measured in 5 quadrats (225 to 2500 m^2) at 9 sites	Pire et al., 1991
Camponotus punctulatus	Camponotus	NE Argentina	-29.020535	-59.36275	1800		35	70	90	150						Mounding		3 mounds (aged 4,6 and 15 years) measured in abandoned rice fields	Gorosito et al., 2006
Camponotus socius	Camponotus	Tallahassee, Florida, USA	30.287919	-84.416124							15-66	66				Underground nest		Data from 24 casts of nests (range in cvolumes 70-765 cm^3)	Tschinkel, 2005
Camponotus vicinus	Camponotus	Arizona, USA	32.428	-110.801												Weathering		1 nest studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Dorymyrmex bicolor	Dorymyrmex	Arizona, USA	32.311	-110.779												Weathering		2 nests studied: Pronounced weathering of olivine and plagioclase grains	Dorn, 2014
Forelius pruinosus	Forelius	Arizona, USA	32.311	-110.779												Weathering		2 nests studied: Pronounced weathering of olivine and plagioclase grains	Dorn, 2014
Formica aquilonia	Formica	Finland	62.82518	24.119564	1.6		53		100							Mounding		302 mounds measured	Punttila & Kilpeläinen 2009
Formica aquilonia	Formica	Boreal forest, Finland	63.06666667	29.86666667	3.6											Mounding		>400 mounds measured in 16 sites (size range 2.3 - 11.3 ha)	Kilpelainen et al., 2008
Formica aquilonia	Formica	E Finland	63.85	28.96666667	2.9		77		145							Mounding		All mounds in 8 mature forest stands measured (mean stand area 5.4 ha)	Domisch et al., 2005
Formica candida	Formica	Sanjiang Plain, NE China	47.605215	133.513582	267		29		66				1.33			Mounding	Nutrient enhancement	5 Five 10x15 m plots studied. Mounding rate from Paton et al 1995	Wu et al., 2013
Formica cinerea montana	Formica	SW Wisconsin, USA	43.583554	-90.941563	1530											Mounding	Bioturbation		Baxter and Hole, 1967
Formica exsecta	Formica	Uppsala, SE Sweden	59.8971	17.784736	11								0.5			Bioturbation	Mounding	Data from spruce forest	Taylor et al 2019
Formica exsecta	Formica	Forsmark, Sweden	60.37115	18.152639	170								1.4			Bioturbation	Mounding	Data from abandoned field	Persson et al., 2007
Formica exsecta	Formica	Finland	62.82518	24.119565	0.52		52		52							Mounding		76 mounds measured	Punttila & Kilpeläinen 2010
Formica exsectoides	Formica	Wisconsin, USA	44.858964	-89.75504			37		110		>160		8.33- 11.3			Mounding	Bioturbation	Mounding rate from Paton et al 1995, 25 active mounds studied	Salem and Hole, 1968
Formica exsectoides	Formica	Crawford County, Michigar	44.655116	-84.694621	70		35		238	500	131	270				Underground nest	Mounding	24 ant nests excavated. Mound density measured over 50 x 75 m area	Bristow et al., 1992
Formica exsectoides	Formica	Havelock, NC, USA	34.854655	-76.917493	917								6.9			Mounding	Bioturbation	Calculations on 1995 data (N=31, in area of 169 x 2 m)	Phillips, 1999
Formica fusca (or pratensi	Formica	New York, USA	42.706785	-75.517059	109								0.95			Mounding	Bioturbation	Mounding rate from Betard, 2020	Levan and Stone, 1983
Formica lugubris	Formica	Rhodope, Greece	41.113491	25.54543	6.5	6.5	74		98							Mounding		46 mounds measured	Tsikas et al., 2016
Formica lugubris	Formica	NE Norway	61.687238	7.708948	2.5-4.6	4.6	44	100								Mounding		168 mounds measured over 3 glacier forelands	Hill et al., 2018
Formica lugubris	Formica	Finland	62.82518	24.119566	0.41		45		81							Mounding		58 mounds measured	Punttila & Kilpeläinen 2011
Formica neogagates	Formica	Arizona, USA	32.428	-110.801												Weathering		1 nest studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Formica obscuripes	Formica	Colorado, USA	39.121378	-105.257095	115	115.0	26	58	65	142	100	100				Mounding	Underground nest	Density from 85 mounds mapped over 64.6 x 114 m area, D and H from 97 mounds	Conway, 1996
Formica obscuripes	Formica	Yellowstone, USA	44.558982	-110.566426	0.11-0.17		28	76	78	228						Mounding		79 mounds measured	Risch et al., 2008
Formica pallidefulva	Formica	Tallahassee, Florida, USA	30.287919	-84.416124							30-45	45				Underground nest		25 ant nests studied	Mikheyev and Tschinkel, 2004
Formica rufa	Formica	Pennsylvania, USA	41.012255	-77.629676	64-125	125.0										Mounding			McCook, 1877
Formica rufa	Formica	Black Forest, Germany	47.961049	7.808609	0.08											Mounding		Based on inventory of all mounds in 1640 ha area in 1978	Klimetsek (1981)
Formica rufibarbis	Formica	Halle, Germany	51.499031	11.93041		8.0	22		49							Mounding		8 mounds measured	Dean et al., 1997
Formica sanguinea	Formica	Sanjiang Plain, NE China	47.605215	133.513582	200		37		31							Mounding		> 10 mounds measured	Wu et al., 2010
Formica subsericea	Formica	Lawrence, Kansas	39.039945	-95.201471	1000		10		40			65				Mounding	Underground nest	2 nests studied, nest depth extracted from figure 4	Drager et al., 2016
Formica ulkei	Formica	Palos Park, Illinois, USA	41.666352	-87.834665	19		80		90							Mounding		>400 mounds in c 50 acres; H & D given for larger mounds	Dreyer, 1942
Iridomyrmex greensladei (	Iridomyrmex	NSW, Australia	-30.31666667	30.31666667			16	25.3	250	338						Mounding	Nutrient depletion	8 mounds measured	Nkem et al., 2000
Lasius alienus	Lasius	Halle, Germany	51.491186	12.133724		4.0	15		43							Mounding		4 mounds measured	Dean et al., 1997
Lasius flavus	Lasius	C Germany	51.925886	10.133397	3300		13.5	23	63	77						Mounding	Nutrient enhancement ;	6 mounds measured	Bierbass et al., 2015
Lasius flavus	Lasius	Sanjiang Plain, NE China	47.605215	133.513582	507		29		61							Mounding	Nutient enhancement	4 mounds measured	Wu et al., 2013
Lasius flavus	Lasius	Slovenske Rudohare Mts, S	48.749881	20.247752	5200			40		70						Mounding	Nutrient enhancement ;	Estimated mound dimensions	Dostál et al. 2005
Lasius flavus	Lasius	Gower, Wales	51.587048	-4.152411			15	20	60	70						Mounding		Estimated mound dimensions	King, 1981b
Lasius flavus	Lasius	Halle, Germany	51.441254	11.694248		89.0	24		54							Mounding		88 mounds measured	Dean et al., 1997
Lasius flavus	Lasius	Hesse, Germany	50.64441	9.002122	4400		30		45							Mounding		All mounds in four 5 x 5 m^2 plots measured	Dauber and Wolters, 2000
Lasius flavus	Lasius	Dellenhaule, BW, German	48.816	10.241	6990		23		52.7							Mounding		Data from study site 198, where 437 mounds measured in 2005	Seifert, 2017
Lasius flavus	Lasius	Zelezny Brod, Czech	50.646476	15.24708			30	30	50	50						Mounding		8 mounds measured	Vele and Holusa, 2017
Lasius flavus	Lasius	Silwood Park, UK	51.408877	-0.639433	1500	2588.0	12	25	38	57			8.24			Mounding	Bioturbation	Mounding rate data from Betard 2020, H and D calculated from 1955 survey (N=18)	Waloff and Blackith, 1962
Lasius flavus	Lasius	Portland, UK	50.540815	-2.440964	1000		28	50	57	90						Mounding		Mounds measured in field (N=50) over 100 x 50 m area.	This paper
Lasius flavus	Lasius	Loscombe, UK	50.778458	-2.710044	11000											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Aston Rowant, UK	51.686134	-0.94469	9550											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Coombe Hill, UK	51.752883	-0.768928	6600											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Richmond Park, UK	51.440957	-0.273327	3310											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Bushy Park, UK	51.414444	-0.338303	3200											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Rhossili, UK	51.571692	-4.290131	2550											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Coombegreen, UK	52.276866	-2.177507	2063											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius flavus	Lasius	Yarnbury, UK	51.303839	-1.988994	1669											Mounding		Measured on Google Earth imagery over 40 x 40 m area	This paper
Lasius neoniger	Lasius	Champaign, illinois, USA	40.103518	-88.212585									1.5		0.8	Bioturbation		12 m^2 area sampled	Johnson and Johnson, 2010
Lasius niger	Lasius	Michigan, USA	44.769024	-84.968891											0.855	Bioturbation		Calculation from Paton et al 1995	Talbot, 1953
Lasius niger	Lasius	Forsmark, Sweden	60.37115	18.152639	100								7.9			Bioturbation	Mounding	Abandoned field site studied	Persson et al., 2007
Lasius niger	Lasius	Oskarshamn, Sweden	57.416667	16.55	50-160								0.05 (max)			Bioturbation	Mounding		Persson et al., 2007
Lasius niger	Lasius	Hesse, Germany	50.64441	9.002122	500		30		40							Mounding		Four 5 x 5 m plots studied	Dauber and Wolters, 2000
Lasius niger	Lasius	Sanjiang Plain, NE China	47.605215	133.513582	453		16		49							Mounding	Nutrient enhancemen		Wu et al., 2013
Liometopum luctuosum	Liometopum	Arizona, USA	32.367	-110.676												Weathering		1 nest studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Melophorus bagoti	Melophorus	Alice Springs, Australia	-23.706183	133.902771							175	175				Underground nest		1 nest studied	Conway, 1992
Messor barbarus	Messor	Somosaguas, Madrid, Spai	40.417573	-3.799667			4.7		20		500	500				Underground nest		18 mounds studied	Martin-Perea et al., 2019
Messor bouvieri	Messor	Almeria, SE Spain	36.857991	-2.466735	8.3											Mounding	Water infiltration	28 mounds measured in 48 x 28 m plot	Cammeraat et al., 2002
Messor capensis	Messor	Cape Province, South Afric	-33.16666667	22.28333333	9.60	23.0	18.6	42	85	225						Mounding		H and D values calculated from 118 measurements	Dean and Yeaton, 1993
Messor structur and Mess	Messor	Ardeche, France	44.631563	4.439247	170-230	230.0										Mounding		26 mounds measured	Aalders et al., 1989
Mixed (Ectatomma ruidum	Mixed	Barro Colorado Isl, Panama	8.990379	-79.527653					4.92	17			0.725			Mounding	Sediment release	274 small mounds monitored	Schmidt et al., 2014
Mixed (Aphaeongaster, Ca	Mixed	Kellerberrin, WA, Australia	-31.610607	117.687429	5100-15400								0.1-0.4		0.01-0.02	Bioturbation		22 sites studied over 2.5 years on farmland, heath and woodland.	Lobry de Bruyn and Conacher, 1994
Myrmica scabrinoides	Myrmica	Hesse, Germany	50.64441	9.002122	3300		10		30							Mounding		Four 5 x 5 m plots studied	Dauber and Wolters, 2000
Myrmica sp	Myrmica	Forsmark, Sweden	60.37115	18.152639	500								1.1			Bioturbation		Moist alder forest site	Persson et al., 2007
Myrmica sp	Myrmica	Oskarshamn, Sweden	57.274302	16.430932	50-300								0.1-0.71			Bioturbation			Persson et al., 2007
Odontomachus brunneus	Odontomachus	Tallahassee, Florida, USA	30.391056	-84.429982							18-184	184				Underground nest		19 nests studied	Cerquera and Tschinkel 2010
Pheidole morrisi	Pheidole	Tallahassee, Florida, USA	30.391056	-84.429982							200	200				Underground nest		40 nests studied	Murdock and Tschinkel, 2015
Pogonomyrmex badius	Pogonomyrmex	S Carolina, USA	33.695582	-80.809287	27					70						Mounding		Density measured in 3700 m^2 area	Golley and Gentry, 1964
Pogonomyrmex badius	Pogonomyrmex	Tallahassee, Florida, USA	30.391056	-84.429982							200-300	300				Underground nest		33 nests studied	Tschinkel, 2004
Pogonomyrmex badius	Pogonomyrmex	Tallahassee, Florida, USA	30.391056	-84.429982	16								64		0.0043	Bioturbation		>400 ant colonies studied	Tschinkel, 2015
Pogonomyrmex barbatus	Pogonomyrmex	Texas, USA	34.809	-101.397												Weathering		2 nests studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Pogonomyrmex mayri	Pogonomyrmex	Tayrona Nat Park, Colombi	11.30623	-74.06567							15-22	22				Underground nest		33 x 40 m plot studied	Kugler and Hincapie, 1983
Pogonomyrmex occidental	Pogonomyrmex	Wyoming, USA	42.785315	-107.337891	21	58.0										Mounding		Densities calculated from 200x200m aerial imagery plots (N=80)	Dibner et al., 2015
Pogonomyrmex occidental	Pogonomyrmex	Los Alamos, New Mexico,	35.893725	-106.300342	14-17	17.0										Mounding	Vegetation disc	Two sites (2.1 and 2.5 ha) studied	Carlson and Whitford, 1991
Pogonomyrmex owyheei	Pogonomyrmex	Central Oregon, USA	44.02548	-120.447348	28				68	130						Mounding	Vegetation disc	H and D measured on 30 mounds, density measured over 10000 m^2 area	Soule and Knapp, 1996
Pogonomyrmex owyheei	Pogonomyrmex	Squaw Butte, E Oregon, U!	43.552018	-120.771987	56.5											Mounding	Vegetation disc	1974 data used, collected from 16.2 ha area	Sneva, 1979
Pogonomyrmex owyheei	Pogonomyrmex	Idaho, USA	42.58169	-113.232343	40		15		85							Mounding	Vegetation disc	c 3 ha area studied, c. 100 mounds, H and D measured on 17 mounds	Porter and Jorgensen, 1988
Pogonomyrmex rugosus	Pogonomyrmex	Las Cruces, new Mexico, U	32.218981	-106.809662		80.0										Mounding	Vegetation disc	Two 800 x 50 m areas studied, 74 nests	Dugas, 2001
Pogonomyrmex rugosus	Pogonomyrmex	New Mexico, USA	35.024867	-106.611487	26.90	56.0			130							Mounding	Water infiltration	Mound diameters calculated from areas given in paper	James et al., 2008
Pogonomyrmex rugosus	Pogonomyrmex	Nevada, USA	36	115	21.70				89							Mounding	Water infiltration	Diameters measured on 217 mounds	Lei, 2000
Pogonomyrmex rugosus	Pogonomyrmex	Teaxs, USA	34.809	-101.397												Weathering		2 nests studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Solenopsis invicta	Solenopsis	Gainesville, FL, USA	29.642044	-82.345166	155-470	470.0	9.5		35							Mounding		H and D measured on 14 mounds	Macom and Porter, 1996
Solenopsis invicta	Solenopsis	N Louisiana, USA	32.486086	-92.674154									1.6			Mounding	Bioturbation	Mound rate data from Betard, 2020 and Paton et al 1995	Lockaby and Adams, 1985
Solenopsis invicta	Solenopsis	Johnston Co, OK, USA	34.36653	-96.722614	50-220	220.0										Mounding		106 plots measured (each 1000 m^2)	Vogt et al 2009
Solenopsis invicta	Solenopsis	Mato Grosso, Brazil	-13.321133	-55.619017	30											Mounding		51 roadside sites studied	Porter et al., 1992
Solenopsis invicta	Solenopsis	SE USA	35.072647	-85.586236	170											Mounding		51 roadside sites studied; exact location in SE USA unknown	Porter et al., 1992
Solenopsis richteri	Solenopsis	Pampas, Argentina	-37.698127	-65.600487			150	150	200	200						Mounding			Whitford and Eldridge, 2013
Tapinoma sessile	Tapinoma	Arizona, USA	32.428	-110.801												Weathering		1 nest studied: Pronounced weathering of olivine and plagioclase grains	Dorn 2014
Tetramorium caespitum	Tetramorium	Champaign, illinois, USA	40.103518	-88.212585									0.2		0.1	Bioturbation		12 m^2 area sampled	Johnson and Johnson, 2010
Trachymyrmex septentional	Trachymyrmex	Tallahassee, Florida, USA	30.391056	-84.429982	>1000						>100		0.8		0.06	Bioturbation	Mounding	9 colonies studied	Tschinkel and Seal,2016