**SCORE**: 11.5

RATING: High Risk

**Taxon:** Cerastium fontanum **Family:** Caryophyllaceae

Common Name(s): common mouse-ear Synonym(s): Cerastium caespitosum Gilib. ex

common mouse-ear chickweed Cerastium fontanum subsp. triviale

mouse-ear chickweed Cerastium holosteoides Fr.

Cerastium triviale Link

Cerastium vulgare Hartm.

Assessor: Chuck Chimera Status: Assessor Approved End Date: 6 Nov 2015

WRA Score: 11.5 Designation: H(HPWRA) Rating: High Risk

Keywords: Herbaceous Weed, Temperate, Widely Naturalized, Mat-Forming, Wind-Dispersed

Qsn #	Question	Answer Option	Answer
101	Is the species highly domesticated?	y=-3, n=0	n
102	Has the species become naturalized where grown?		
103	Does the species have weedy races?		
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	(0-low; 1-intermediate; 2-high) (See Appendix 2)	Low
202	Quality of climate match data	(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
203	Broad climate suitability (environmental versatility)	y=1, n=0	У
204	Native or naturalized in regions with tropical or subtropical climates	y=1, n=0	У
205	Does the species have a history of repeated introductions outside its natural range?	y=-2, ?=-1, n=0	У
301	Naturalized beyond native range	y = 1*multiplier (see Appendix 2), n= question 205	У
302	Garden/amenity/disturbance weed	n=0, y = 1*multiplier (see Appendix 2)	у
303	Agricultural/forestry/horticultural weed		
304	Environmental weed		
305	Congeneric weed	n=0, y = 1*multiplier (see Appendix 2)	у
401	Produces spines, thorns or burrs	y=1, n=0	n
402	Allelopathic	y=1, n=0	n
403	Parasitic	y=1, n=0	n
404	Unpalatable to grazing animals	y=1, n=-1	n
405	Toxic to animals	y=1, n=0	n
406	Host for recognized pests and pathogens		
407	Causes allergies or is otherwise toxic to humans	y=1, n=0	n

Qsn #	Question	Answer Option	Answer
408	Creates a fire hazard in natural ecosystems	y=1, n=0	n
409	Is a shade tolerant plant at some stage of its life cycle		
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	y=1, n=0	У
411	Climbing or smothering growth habit	y=1, n=0	n
412	Forms dense thickets	y=1, n=0	n
501	Aquatic	y=5, n=0	n
502	Grass	y=1, n=0	n
503	Nitrogen fixing woody plant	y=1, n=0	n
504	Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)	y=1, n=0	n
601	Evidence of substantial reproductive failure in native habitat	y=1, n=0	n
602	Produces viable seed	y=1, n=-1	у
603	Hybridizes naturally	y=1, n=-1	у
604	Self-compatible or apomictic	y=1, n=-1	у
605	Requires specialist pollinators	y=-1, n=0	n
606	Reproduction by vegetative fragmentation	y=1, n=-1	у
607	Minimum generative time (years)	1 year = 1, 2 or 3 years = 0, 4+ years = -1	1
701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)		
702	Propagules dispersed intentionally by people	y=1, n=-1	n
703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	у
704	Propagules adapted to wind dispersal	y=1, n=-1	у
705	Propagules water dispersed		
706	Propagules bird dispersed		
707	Propagules dispersed by other animals (externally)	y=1, n=-1	у
708	Propagules survive passage through the gut	y=1, n=-1	у
801	Prolific seed production (>1000/m2)	y=1, n=-1	У
802	Evidence that a persistent propagule bank is formed (>1 yr)	y=1, n=-1	У
803	Well controlled by herbicides	y=-1, n=1	у
804	Tolerates, or benefits from, mutilation, cultivation, or fire	y=1, n=-1	n
805	Effective natural enemies present locally (e.g. introduced biocontrol agents)		

# **Supporting Data:**

Qsn #	Question	Answer
101	Is the species highly domesticated?	n
	Source(s)	Notes
	Grime, J.P., Hodgson, J.G. & Hunt, R. (2014). Comparative Plant Ecology: A Functional Approach to Common British Species. Springer, Dordrecht, Netherlands	No evidence of domestication
102	Has the species become naturalized where grown?	<u> </u>
102	Source(s)	Notes
	WRA Specialist. 2015. Personal Communication	NA NA
	WITA Specialist. 2013. I cisonal communication	
103	Does the species have weedy races?	
	Source(s)	Notes
	WRA Specialist. 2015. Personal Communication	NA
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	Low
	Source(s)	Notes
	USDA, ARS, National Genetic Resources Program. 2015. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. URL: http://www.ars-grin.gov/. [Accessed 4 Nov 2015]	"Native:     AFRICA     Macaronesia: Portugal - Madeira Islands; Spain - Canary Islands     Northern Africa: Algeria; Morocco     ASIA-TEMPERATE     Western Asia: Turkey     Siberia: Russian Federation - Eastern Siberia, Western Siberia     EUROPE     Northern Europe: Denmark; Finland; Iceland; Ireland; Norway; Sweden; United Kingdom     Middle Europe: Austria; Belgium; Czech Republic; Germany; Hungary; Netherlands; Poland; Slovakia; Switzerland     East Europe: Belarus; Estonia; Latvia; Lithuania; Moldova; Russia; Federation - European part; Ukraine [incl. Krym]     Southeastern Europe: Albania; Bosnia and Herzegovina; Bulgaria; Croatia; Greece; Italy [incl. Sardinia, Sicily]; Macedonia; Monteneg

Romania; Serbia; Slovenia

Baleares]"

Southwestern Europe: France [incl. Corsica]; Portugal; Spain [incl.

Qsn #	Question	Answer
202	Quality of climate match data	High
	Source(s)	Notes
	USDA, ARS, National Genetic Resources Program. 2015. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. URL: http://www.ars-grin.gov/. [Accessed 4 Nov 2015]	
	1	<u></u>
203	Broad climate suitability (environmental versatility)	У
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	[Broad elevation range, demonstrates environmental versatility] "Native to Eurasia, widely naturalized; in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats, 0-3,900 m,"
204	Native or naturalized in regions with tropical or subtropical climates	У
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"Native to Eurasia, widely naturalized; in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats, 0-3,900 m, on all of the main islands except Ni'ihau and Kaho'olawe. Naturalized on Maui prior to 1871 (Hillebrand, 1888)"
205	Does the species have a history of repeated introductions outside its natural range?	У
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	
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301	Naturalized beyond native range	у
	Source(s)	Notes
	Medeiros, A.C., Loope, L.L. & Chimera, C.G. 1998. Flowering Plants and Gymnosperms of Haleakala National Park. Technical Report 120. Pacific Cooperative Studies Unit, Honolulu, HI	"Crater; west Kaupo Gap; Klpahulu Valley; Manawainui; NE rift; West slope. Matted, short-lived perennial herb with hirsute stems and leaves"
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats, 0-3,900 m, on all of the main islands except Ni'ihau and Kaho'olawe. Naturalized on Maui prior to 1871 (Hillebrand, 1888)"
	USDA, ARS, National Genetic Resources Program. 2015. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. URL: http://www.ars-grin.gov/. [Accessed 4 Nov 2015]	"Naturalized: AFRICA Macaronesia: Portugal - Azores naturalized throughout temperate regions "

302	Garden/amenity/disturbance weed	у

Creation Date: 6 Nov 2015 (Cerastium fontanum) Page 4 of 15

305

Qsn #	Question	Answer
Q3II #	Source(s)	Notes
	Flora of North America Editorial Committee. (2005). Flora of North America: north of Mexico. Magnoliophyta: Caryophyllidae. Caryophyllales. Volume 5, Part 2. Oxford University Press, Oxford, UK	"A common weed in grassy places: lawns, roadsides, pastures, open woodlands, wastelands; 0-3000 m; introduced"
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Cerastium fontanum cited in a number of references as naturalized and/or a weed] "1262-E, 1259-E, 1229-N, 1215-N, 1209- A, 1203-W, 1193-A, 1185-A, 1122-vG, 1081-EI, 1007-N, 983-I, 945-N, 819-N, 788-W, 765-N, 756-UC, 725-NI, 636-N, 505-E, 425-NW, 403-W, 396-N, 32-A, 280-N, 272-W, 243-A, 207-AW, 195-E, 176-N, 165-W, 151-E, 101-N, 94-A, 85-N, 72-E, 70-W"
303	Agricultural/forestry/horticultural weed	
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	Cited as a weed of agriculture. Impacts unknown
304	Environmental weed	
	Source(s)	Notes
	Medeiros, A.C., Loope, L.L. & Chimera, C.G. 1998. Flowering Plants and Gymnosperms of Haleakala National Park. Technical Report 120. Pacific Cooperative Studies Unit, Honolulu, HI	"Crater; west Kaupo Gap; Klpahulu Valley; Manawainui; NE rift; West slope." [Not identified as a significant weed of Haleakala National Park]
	Howell, C. (2008). Consolidated list of environmental weeds in New Zealand. DOC Research & Development Series 292. Science & Technical Publishing Department of Conservation, Wellington, New Zealand	[Generally not considered problem weeds] "After the establishment of DOC in 1987, this was the first formal list produced regarding the status of weeds on DOC-managed land (Williams & Timmins 1990)." "Cerastium fontanum and Poa annua were included as they were being controlled on the Snares Islands, but were generally not considered problem weeds on mainland New Zealand."
	Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thuill. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed 4 Nov 2015]	[No evidence from Alaska] "Impact on community composition, structure, and interactions: Common mouse-ear chickweed and sticky chickweed have not been observed in undisturbed plant communities in Alaska, and their impacts on native community composition have not been documented. These species are known hosts for some nematode species (Townshend and Davidson 1962)."
	Loope, L.L., Nagata, R.J. & Medeiros, A.C. 1992, Alien plants in Haleakala National Park Pp. 551-576 in Stone et al (eds) Alien plant invasions in native ecosystems of Hawaii. Coop. Nat. Park Resources Studies Unit, University	Not identified as a significant weed of Haleakala National Park

Congeneric weed

Qsn #	Question	Answer
	Wilen, C. A. (2006). Chickweeds. Integrated Pest Management for Home Gardeners and Landscape Professionals. Pest Notes. Publication 74129. University of California, Agriculture and Natural Resources, Oakland, CA. http://www.ipm.ucdavis.edu. [Accessed]	"In turf and landscape plantings, common and sticky chickweed can be unsightly, reducing the aesthetic value. In cool, wet conditions common chickweed forms a dense mat of spreading stems that may root at the nodes. This increases the difficulty of hand weeding or hoeing."
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Classified as a weed in a number of references] "Cerastium arvense L. Caryophyllaceae See: Cerastium arvense L. var. viscidulum Gremli Cultivated Refs: 42 1278-N, 1266-A, 1245-E, 1243-N, 1240- W, 1238-W, 1229-N, 998-A, 983-I, 931- A, 927-A, 919-N, 883-W, 876-NI, 819-N, 794-N, 790-X, 765-N, 736-E, 711-N, 642-A, 636-N, 543-A, 519-N, 431-W, 388-W, 300-N, 299-XW, 280-N, 272-W, 243-A, 241-N, 218-W, 162-W, 161-W, 136-AW, 101-N, 94-A, 87-W, 85-N, 70- W, 42-N"
401	Produces spines, thorns or burrs	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	[No evidence] "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots; stems 3-7 dm long, hirsute to sometimes glandular. Leaves oblanceolate to oblong or elliptic-ovate 10-25 mm long, 3-10 mm wide, both surfaces conspicuously hirsute, sessile."
402	Allalamathia	
402	Allelopathic Source(s)	n Notes
	Carlson, M.L., Lapina, I.V. Shephard, M., Conn, J.S., Densmore, R., Spencer, P., Heys, J., Riley, J., & Nielsen, J. (2008). Invasiveness Ranking System for Non-Native Plants of Alaska. USDA Forest Service, Alaska Region R10-TP-143	"Common mouse-ear chickweed and sticky chickweed are not
403	Parasitic	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"Matted, short-lived perennial herbs" [Caryophyllaceae. No evidence]
404	Unpalatable to grazing animals	n
	Source(s)	Notes
	Diaz, A. (2000). Can plant palatability trials be used to	1401.03
	predict the effect of rabbit grazing on the flora of exarable land?. Agriculture, Ecosystems & Environment, 78 (3): 249-259	"Table 3 The total number of plants of each species that were nibbled by rabbits (maxD20 per plot)" [Cerastium fontanum palatable to rabbits]
	Stewart, G.B. & Pullin, A.S. 2006. Does sheep-grazing degrade unimproved neutral grasslands managed as pasture in lowland Britain? CEE review 05-009 (SR15). Collaboration for Environmental Evidence: www.environmentalevidence.org/SR15.html	"There was also a reduction in forb biomass and diversity, although Ranunculus bulbosus and Cerastium fontanum persist. Both these forbs are dependent upon the debilitation of potential dominants fo survival and are therefore frequent in grazed habitats although Cerastium fontanum is eaten by cattle and appears sensitive to

**Notes** 

"Anthelmintic, cooling, febrifuge" [No evidence. Medicinal]

Qsn #	Question	Answer
	Bossuyt, B., De Fre, B., & Hoffmann, M. (2005). Abundance and flowering success patterns in a short-term grazed grassland: early evidence of facilitation. Journal of Ecology, 93(6): 1104-1114	"There was clear evidence for a facilitation effect, expressed by a higher abundance and flowering success of several palatable species when they were associated with a high cover of an unpalatable species." "The effect of this grazing avoidance had become significant for several palatable species (e.g. Agrostis stolonifera, Cerastium fontanum, Holcus lanatus, Juncus subnodulosus, Rubus caesius) by only 3 years after the start of year-round grazing. These species reached a higher abundance in association with an unpalatable species or/and produced more inflorescences."
405	Toxic to animals	n
	Source(s)	Notes
	Wagstaff, D.J. 2008. International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	No evidence
	Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology. CRC Press, Boca Raton, FL	No evidence [palatable to browsing & grazing animals]
406	Heat for recognized wests and notherway	
406	Host for recognized pests and pathogens  Source(s)	Notes
	Groves, R. L., Walgenbach, J. F., Moyer, J. W., & Kennedy, G. G. (2002). The role of weed hosts and tobacco thrips, Frankliniella fusca, in the epidemiology of Tomato spotted wilt virus. Plant Disease, 86(6): 573-582	[Cerastium vulgatum = syn for Cerastium fontanum subsp. vulgare] "Wild plant species were systematically sampled to characterize reproduction of thrips, the vector of Tomato spotted wilt virus (TSWV), and natural sources TSWV infection. Thrips populations were monitored on 28 common perennial, biennial, and annual plant species over two noncrop seasons at six field locations across North Carolina. Sonchus asper, Stellaria media, and Taraxacum officianale consistently supported the largest populations of immature TSWV vector species. The tobacco thrips, Frankliniella fusca, was the most abundant TSWV vector species collected, comprising over 95% of vector species in each survey season. Perennial plant species (i.e., Plantago rugelii and Taraxacum officianale) were often only locally abundant, and many annual species (Cerastium vulgatum, Sonchus asper, and Stellaria media) were more widely distributed."
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407	Causes allergies or is otherwise toxic to humans	

Source(s)

Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names,

Eponyms, Synonyms, and Etymology. CRC Press, Boca

Raton, FL

Qsn #	Question	Answer
408	Creates a fire hazard in natural ecosystems	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	[Unlikely to contribute significant fuel load] "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" "in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats"
	Zimmer, H., Cheal, D.& Cross, E. 2012. Post-fire Weeds Triage Manual: Black Saturday Victoria 2009 – Natural values fire recovery program. Department of Sustainability and Environment, Heidelberg, Victoria	No evidence
	T	
409	Is a shade tolerant plant at some stage of its life cycle	
	Source(s)	Notes
	Plants for a Future. 2015. Cerastium fontanum. http://www.pfaf.org/user/Plant.aspx? LatinName=Cerastium+fontanum. [Accessed 5 Nov 2015]	"It can grow in semi-shade (light woodland). It prefers moist soil."
	Hilty, J. 2015. Weedy Wildflowers of Illinois - Common Mouse Eared Chickweed - Cerastium fontanum. http://www.illinoiswildflowers.info/weeds/plants/cmme_chickweed.htm. [Accessed 5 Nov 2015]	"The preference is full sun to light shade and moist to slightly dry conditions."
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	у
	Source(s)	Notes
	Grime, J.P., Hodgson, J.G. & Hunt, R. (2014). Comparative Plant Ecology: A Functional Approach to Common British Species. Springer, Dordrecht, Netherlands	"Soil pH. Found over a wide range of values, but infrequent below pH 4.5. Bare soil. Occurring in association with a wide range of values."
	Hilty, J. 2015. Weedy Wildflowers of Illinois - Common Mouse Eared Chickweed - Cerastium fontanum. http://www.illinoiswildflowers.info/weeds/plants/cmme_chickweed.htm. [Accessed 5 Nov 2015]	"This plant can tolerate a broad range of soils, including those that contain loam, clay-loam, and pebbly or gravelly material. Common Mouse-Eared Chickweed is more often found in fertile soil than other Cerastium spp. (Mouse-Eared Chickweeds). It is a larger plant that can tolerate more competition from other kinds of vegetation."
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411	Climbing or smothering growth habit	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots; stems 3-7 dm long, hirsute to sometimes glandular."
	Υ	
412	Forms dense thickets	n
	Source(s)	Notes
	Carlson, M.L., Lapina, I.V. Shephard, M., Conn, J.S., Densmore, R., Spencer, P., Heys, J., Riley, J., & Nielsen, J. (2008). Invasiveness Ranking System for Non-Native Plants of Alaska. USDA Forest Service, Alaska Region R10-TP-143	"Common mouse-ear chickweed and sticky chickweed do not form dense patches in Alaska (M. Carslon pers. obs.)."

Qsn #	Question	Answer
	Grime, J.P., Hodgson, J.G. & Hunt, R. (2014). Comparative Plant Ecology: A Functional Approach to Common British Species. Springer, Dordrecht, Netherlands	"Gregariousness Sparse to intermediate, but occasionally forming patches."
	Kaczmarek, F.S. (2009). New England Wildflowers: A Guide to Common Plants. The Globe Pequot Press, Guilford, CT	"The stems can root at the nodes. allowing it to form dense mats."
501	Aquatic	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	[Terrestrial herb] "Matted, short-lived perennial herbs in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats"
	<u> </u>	Υ
502	Grass	n
	Source(s)	Notes
	USDA, ARS, National Genetic Resources Program. 2015. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. URL: http://www.ars-grin.gov/. [Accessed 4 Nov 2015]	"Family: Caryophyllaceae subfamily: Alsinoideae tribe: Alsineae"
	ĺ	<del>Y</del>
503	Nitrogen fixing woody plant	n
503	Nitrogen fixing woody plant Source(s)	n Notes
503		Notes
503	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University	Notes  "Matted, short-lived perennial herbs with short, depressed, basal,
	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.  Geophyte (herbaceous with underground storage organs)	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]
	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, Hl.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem
	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA.  http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chi	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem
	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA.  http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chi	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem
504	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA.  http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chickweed.html. [Accessed 4 Nov 2015]	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem joints (nodes). "
504	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, Hl.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA.  http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chickweed.html. [Accessed 4 Nov 2015]  Evidence of substantial reproductive failure in native habitat	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem joints (nodes). "  n  Notes
504	Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, Hl.  Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)  Source(s)  UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA. http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chickweed.html. [Accessed 4 Nov 2015]  Evidence of substantial reproductive failure in native habitat  Source(s)  Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University	Notes  "Matted, short-lived perennial herbs with short, depressed, basal, lateral shoots" [Caryophyllaceae]  n  Notes  "Mouseear chickweed grows up to about 20 inches (0.5 m) long. It is a hairy plant with creeping matlike stems that root from the stem joints (nodes). "  n  Notes

Qsn #	Question	Answer
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"Capsules cylindrical, curved, 9-12 mm long. Seeds reddish brown, 0.4-0.8 mm long, tuberculate."
	UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA. http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chickweed.html. [Accessed 4 Nov 2015]	"Mouseear chickweed reproduces by seed, but sometimes reproduces by creeping stems that root from the stem joints

3	Hybridizes naturally	У
	Source(s)	Notes
	Stace, C., van der Meijden, R. (ed.) & de Kort, I. (ed.). 2015. Interactive Flora of NW Europe - Cerastium fontanum. http://wbd.etibioinformatics.nl/bis/flora.php menuentry=soorten&id=1915. [Accessed 5 Nov 2015]	"Hybrids - Cerastium x pseudoalpinum Murr (= Cerastium arvense x Cerastium fontanum) has occurred in 3 places in Co Durham and South Lincs in rough grassland with the parents; it resembles Cerastium arvense but with smaller flowers, wider leaves and denser pubescence, and is sterile Cerastium x richardsonii Druce (= Cerastium nigrescens x Cerastium fontanum) has been found with the parents in North Wales and North Scotland; it is intermediate but with petals as long as those of Cerastium arcticum and is largely sterile Cerastium x symei Druce (= Cerastium alpinum x Cerastium fontanum) occurs on mountains in Scotland with both parents; it is intermediate in pubescence and flower-size and -number and is sterile."
	National Biodiversity Network. 2015. Cerastium alpinum x fontanum = C. x symei Druce. https://data.nbn.org.uk/Taxa/NHMSYS0001754710. [Accessed 5 Nov 2015]	Species hybrid
	National Biodiversity Network. 2015. Cerastium arvense x fontanum = C. x pseudoalpinum Murr. https://data.nbn.org.uk/Taxa/NHMSYS0001754779. [Accessed 5 Nov 2015]	Species hybrid

604	Self-compatible or apomictic	у
	Source(s)	Notes
	Grime, J.P., Hodgson, J.G. & Hunt, R. (2014). Comparative Plant Ecology: A Functional Approach to Common British Species. Springer, Dordrecht, Netherlands	"Flowers White, hermaphrodite, protandrous, selfed or insect-pollinated"
	Itacijnajtvija tao nativo rango. Ecologijana Evolution. 5	"Table 1. Species pairs: life-form, breeding system, status, and mean seed production per inflorescence." [Cerastium fontanum - Breeding System = Hermaphrodite; protoandrous; automatic self or cross]

605	Requires specialist pollinators	n
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[Probably Yes. Occurs in heavily trafficked areas] "Not only seed

appendages can aid attachment to fur, but also larger parts of the

fruiting branch and vegetative parts, as we observed in Cerastium

fontanum, E. tetralix and C. vulgaris."

Qsn #	Question	Answer
QSII #	Source(s)	Notes
		"Flowers in terminal, rather compact, dichotomous cymes, but in fruit becoming more open and the lower pedicels divergent to reflexed and 2-4 times as long as calyx; sepals 3-6.5 mm long, hirsute, margins scarious; petals white, 4-5 mm long, apex slightly cleft." [No evidence from floral morphology]
	Grime, J.P., Hodgson, J.G. & Hunt, R. (2014). Comparative Plant Ecology: A Functional Approach to Common British Species. Springer, Dordrecht, Netherlands	"Flowers White, hermaphrodite, protandrous, selfed or insect-pollinated"
	Holden, P. & Abbott, G. 2008. RSPB Handbook of Garden Wildlife. A & C Black Publishers, London, UK	"Self-pollinated." "The flowers are visited by very small insects, mostly flies."
606	Reproduction by vegetative fragmentation	у
	Source(s)	Notes
	UC IPM. 2014. Mouseear chickweed (Cerastium fontanum ssp. vulgare). Agriculture and Natural Resources, UC Davis, CA. http://www.ipm.ucdavis.edu/PMG/WEEDS/mouseear_chickweed.html. [Accessed 4 Nov 2015]	"Mouseear chickweed reproduces by seed, but sometimes reproduces by creeping stems that root from the stem joints
	Beidleman, L.H., Beidleman, R.G. & Willard, B.E. (2000). Plants of Rocky Mountain National Park. Falcon Publishing, Helena, MT	"This species is an annual and often forms mats with rooting stem
607	Minimum congrative time (veges)	1
607	Minimum generative time (years)  Source(s)	Notes
	UC IPM, 2014. Mouseear chickweed. (Cerastium fontanum	"Mouseear chickweed is a prostrate perennial broadleaf plant tha
701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	
	Source(s)	Notes
	Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thuill. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed 4 Nov 2015]	"Common mouse-ear chickweed grows in roadsides, waste places gardens, and fields."
	Kaczmarek, F.S. (2009). New England Wildflowers: A Guide to Common Plants. The Globe Pequot Press,	"Fields. roadsides. and waste areas."
	Guilford, CT	

Mouissie, A. M., Lengkeek, W., & Van Diggelen, R. (2005).

Estimating adhesive seed-dispersal distances: field

Ecology, 19(3): 478-486

experiments and correlated random walks. Functional

Qsn #	Question	Answer
702	Propagules dispersed intentionally by people	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R.& Sohmer, S.H. 1999. Manual of the flowering plants of Hawaii. Revised edition. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	"widely naturalized; in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats, 0-3,900 m, on all of the main islands except Ni'ihau and Kaho'olawe. Naturalized on Maui prior to 1871 (Hillebrand, 1888)." [Long history of naturalization. No current evidence of intentional introduction]

703	Propagules likely to disperse as a produce contaminant	у
	Source(s)	Notes
	Salt, C. A., Mayes, R. W., & Elston, D. A. (1992). Effects of season, grazing intensity and diet composition on the radiocaesium intake by sheep on re-seeded hill pasture. Journal of Applied Ecology, 29(2): 378-387	"It would be desirable to reduce the amount of Cerastiumf ontanumi n the sward. This may however not be easy to achieve since C. fontanum is probably introduced to hill pastures as a contaminant of commercial seed supplies of Trifoliumr epens and Phleum pretense (Fryer & Makepace 1977)."
	Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thuill. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed 4 Nov 2015]	"Potential to be spread by human activity: Common mouse-ear chickweed grows in gardens and lawns. It can be transported with horticultural stock (Hodkinson and Thompson 1997)."

704	Propagules adapted to wind dispersal	у
	Source(s)	Notes
	typology based on dispersal modes and plant traits.	"Cerastium fontanum subsp. vulgare" [Seeds categorized as dispersed by Boleochory. Boleochory (semachory) is another mode used by anemochorous plants. The small seeds without particular features are spread when the fruit is shaken by wind. At maturity, the stem of such plants is often rigid but elastic and sways in the wind, acting like a catapult."

705	5	Propagules water dispersed	
		Source(s)	Notes
		the flowering plants of Hawaii. Revised edition. University	[Small seeds may possibly be dispersed by overland flow of water] "Seeds reddish brown, 0.4-0.8 mm long, tuberculate" "in Hawai'i naturalized in usually wet to sometimes dry, disturbed habitats"

	Question	Answer	
706	Propagules bird dispersed		
	Source(s)	Notes	
	Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thuill. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed 4 Nov 2015]	"Potential for long-distance dispersal: Seabirds probably have some role in the transportation of seeds. Viable seeds of Cerastium species were found in the pellets of sea gulls (Gillham 1956)."	
	Holden, P. & Abbott, G. 2008. RSPB Handbook of Garden Wildlife. A & C Black Publishers, London, UK	"The seed capsules are always close to the ground, and are eaten by sparrows, finches and Dunnock." [Presumably act as seed predators]	
	7		
707	Propagules dispersed by other animals (externally)	У	
	Source(s)	Notes	
	Mouissie, A. M., Lengkeek, W., & Van Diggelen, R. (2005). Estimating adhesive seed-dispersal distances: field experiments and correlated random walks. Functional Ecology, 19(3): 478-486	"Not only seed appendages can aid attachment to fur, but also larger parts of the fruiting branch and vegetative parts, as we observed in Cerastium fontanum, E. tetralix and C. vulgaris."	
	T		
708	Propagules survive passage through the gut	У	
	Source(s)	Notes	
	Pakeman, R. J., Digneffe, G., & Small, J. L. (2002). Ecological correlates of endozoochory by herbivores. Functional Ecology, 16(3): 296-304	"A number of species classified as having no specific dispersal mechanism (Grime et al. 1988) germinated in high numbers from the dung (Table 4). These were mainly species of low stature such as Cerastium fontanum, Poa annua, Sagina procumbens and Stellaria media." [Seeds of Cerastium fontanum germinated from rabbit and sheep dung]	
	Mouissie, A., Van Der Veen, C. E., Veen, G. C., & Van Diggelen, R. (2005). Ecological correlates of seed survival after ingestion by fallow deer. Functional Ecology, 19(2): 284-290	"On average, passage of 50% of total seed recovery (t0·5) took 24·9 h and ranged between 13·3 h for the fastest species, Cerastium fontanum, and $38\cdot4$ h for the slowest species, P. major" "Almost all species fed to the Fallow Deer germinated from the dung."	
	Kuiters, A. T., & Huiskes, H. P. J. (2010). Potential of endozoochorous seed dispersal by sheep in calcareous grasslands: correlations with seed traits. Applied Vegetation Science, 13(2): 163-172	"Table 2. List of species that germinated from the sheep dung samples (n524) collected at five calcareous grassland sites in the Netherlands between Sep 2005 and Nov 2007." [Includes seeds of Cerastium fontanum]	
801	Prolific seed production (>1000/m2)	у	
	Source(s)	Notes	
	Williams, E. D. (1984). Changes during 3 years in the size and composition of the seed bank beneath a long-term pasture as influenced by defoliation and fertilizer regime. Journal of Applied Ecology, 21(2): 603-615.	"A 3-year study was conducted of the changes in the size and composition of the seed bank beneath an Agrostis-Festuca pasture, resulting from regular or infrequent defoliation and moderate fertilizer applications." "TABLE 6. Estimate of the number of viable seeds m-2 shed during haymaking on the infrequently cut plots during June and July 1978" [Seed densities of Cerastiumfontanum ssp glabrescens range from 565 to 19 121 m-2]	
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(Cerastium fontanum ssp. vulgare). Washington State University, Pullman, Washington. http://hortsense.cahnrs.wsu.edu/. [Accessed 6 Nov 2015]  Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thuill. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed 4 Nov 2015]  Marshall, J., Brown, V., Boatman, N., Lutman, P., & Squire, G. (2001). The impact of herbicides on weed abundance and biodiversity. Defra PN0940. A report for the UK Pesticides Safety Directorate. Bristol: IACR Long Ashton Research Station  Tolerates, or benefits from, mutilation, cultivation, or fire  Source(s)  Alaska Natural Heritage Program. (2011). common mouse- ear chickweed - Cerastium fontanum susceptible to some herbicides & resistant to others  "These weeds thrive in lawns and gardens but do not tolerate cultivation (Ohio perennial and biennial weed guide 2006)." "Sma			
Thompson, K. B. S. R., Band, S. R., & Hodgson, J. G. (1993).  Seed size and shape predict persistence in soil. Functional Ecology, 7: 236-241  **Mostar Source(s)**  **Well controlled by herbicides**  **Well controlled by herbicides**  **Well controlled by herbicides**  **Well Hortsense. (2014). Weeds: Mouseear chickweed (Cerastium fontanum ssp. vulgare). Washington. http://hortsense. cahins.wsu.edu/. [Accessed 6 Nov 2015]  **Alaska Natural Heritage Program. (2011). common mousear chickweed - Cerastium fontanum ssp. vulgare (Hartman) Greuter & Burdet. sticky chickweed - Cerastium glomeratum Thulil. University of Alaska, Anchorage. http://aknhp.uaa.alaska.edu. [Accessed A Nov 2015]  **Marshall, J., Brown, V., Boatman, N., Lutman, P., & Squire, G. (2001). The impact of herbicides on weed abundance and biodiversity. Defra PN0940. A report for the UK Pesticides Safety Directorate. Bristol: IACR Long Ashton Research Station  **Tolerates, or benefits from, mutilation, cultivation, or fire Source(s)  **Tolerates, or benefits from, mutilation, cultivation, or fire source(s)  **These weeds thrive in lawns and gardens but do not tolerate cultivation (Ohio perennial and biennial weed guide 2006)." "Sna populations of common mouse-ear chickweed and sticky chickweed cultivation (Ohio perennial and biennial weed guide 2006)." "Sna populations of common mouse-ear chickweed and sticky chickweed cultivation (Ohio perennial and biennial weed guide 2006)." "Sna populations of common mouse-ear chickweed and sticky chickweed can be controlled by hand-pulling."  **These weeds thrive in lawns and gardens but do not tolerate cultivation (Ohio perennial and biennial weed guide 2006)." "Sna populations of common mouse-ear chickweed and sticky chickweed can be controlled by hand-pulling."  **These weeds thrive in lawns and gardens but do not tolerate cultivation (Ohio perennial and biennial weed guide 2006)." "Sna populations of common mouse-ear chickweed and sticky chickweed can be controlled by hand-pulling."	Qsn #	Question	Answer
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the flowering plants of Hawaii. Revised edition. University disturbed habitats, 0-3,900 m, on all of the main islands except

Ni'ihau and Kaho'olawe."

## **SCORE**: 11.5

**RATING:** High Risk

## **Summary of Risk Traits:**

### High Risk / Undesirable Traits

- Elevation range exceeds 3000+ m, demonstrating environmental versatility
- · Naturalized & able to grow in tropical climates
- Widely naturalized, including all main Hawaiian Islands
- A weed of lawns, roadsides, pastures, open woodlands & wastelands
- Other Cerastium species have become weeds
- Tolerates many soil types
- Reproduces by seed & by creeping stems that root from the stem joints
- · Hybridizes with other Cerastium species
- Capable of self-pollination
- · Able to reach maturity in one growing season
- Seeds dispersed by wind, as a produce contaminant, & both externally & internally by birds & other animals
- Prolific seed production
- · Seeds may form a persistent seed bank

### Low Risk Traits

- Despite widespread naturalization & reports of weediness, impacts are generally unspecified or not considered to be significant in natural communities
- Unarmed (no spines, thorns or burrs)
- Palatable to browsing & grazing animals
- Non-toxic
- Effectively controlled by herbicides
- Effectively controlled by hand-pulling & cultivation