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W[illegible]

[illegible]

[illegible] H[illegible]

44% 19 12 0.3% 0.1%

264

(S Fig. 1; 17,24).

75.4 ± 6.9%
59.2 ± 10.5%

(Fig. 2), ~92% 40% (Fig. 2).

3.2 (Fig. 3) (Fig. 3)

Discussion

(Fig. 1) [25] 80%

B C B D 7 E 2020 (. . 8). S 44. E

Methods

Data sets to study crop visitation by bees. (). 90. 1,394 20 (S F. 1. S 1). 1. 90. 15.7 41.7.

Flower visitation frequency as a proxy for crop pollination service delivery. ([45]). B [46] [47]. H (3 22 47 Citrullus lanatus, Helianthus annuus Phaseolus coccineus). ( ). ([45, 47]). ( ). (5), (2), (2). (2). 11 E E [46] 302 176 100 66 48 50). B ( ). A (Xylocopa virginica)

[47] (= 0.87; S 4). A (r = 0.11; S 4). F (S 4). I 47 (S 4). I

Determining species abundance distributions. H E , Bombus terrestris B. lucorum [51]. I I S , Ceratina calcarata, C. dupla C. mikmaqi Lasioglossum leucocomum L. pilosum. (Apis mellifera) S A ( ). I I A (A. cerana) I H (: 0.51 ± 0.036), (S 1). A 754

The economic contribution of bees to crop production. F 53. [22]. F A U [52] [53]: $V_\Delta = P \cdot Y \cdot D \cdot \rho$. H V_Δ (\$ $^{-1}$), P (\$ $^{-1}$), Y ($^{-1}$), D [54] ρ ( ).

Identifying dominant crop-visiting bee species. B 5% 80% (S F. 2). S 2% (S F. 3). F (S F. 4).

The contribution of threatened species to crop visitation. [illegible]

Data sets to study commonness and effects of conservation. [illegible]

Analysing commonness in relation to semi-natural habitat. [illegible]

[illegible] 1,000 [illegible] 2006 [illegible]

[illegible] 1:2,000 [illegible]

[illegible]

Analysing effects of measures mitigating biodiversity loss. [illegible] ($F_{8,267} = 3.94$, $P < 0.001$). [illegible]

References

1. [illegible] Science 30[illegible], 550 555 (2005).
2. [illegible] et al. [illegible] Science 32[illegible], 1164 1168 (2010).
3. TEEB. [illegible] (2010).
4. [illegible] et al. [illegible] Science 2[illegible], 2047 2047 (2001).
5. [illegible], A. et al. [illegible] Science 2[illegible], 950 953 (2002).
6. [illegible]? BioScience 62, 962 969 (2012).
7. CBD. [illegible] 2011-2020 [illegible] =12268 (2010; [illegible] 13 [illegible] 2014).
8. EC. [illegible] 2020. [illegible] (2011) 244 [illegible]

10. H[illegible], D[illegible] et al. B[illegible]. Ecol. Monogr. [illegible], 3 35 (2005).

11. I[illegible], F. et al. H[illegible]. Nature **4[illegible]**, 199 202 (2011).

12. C[illegible], B. J. et al. B[illegible]. Nature **4[illegible]6**, 59 67 (2012).

13. [illegible], D., [illegible], [illegible]. B. & I[illegible], F. B[illegible]. Proc. Natl Acad. Sci. USA **10[illegible]**, 10394 10397 (2012).

14. [illegible] C[illegible], D.[illegible] et al. F[illegible]. Science **33[illegible]**, 946 949 (2012).

15. [illegible] G[illegible], B. J. et al. S[illegible]. Ecol. Lett. **10**, 995 1015 (2007).

16. [illegible] S[illegible], H. et al. H[illegible] A[illegible]. Science **342**, 1243092 (2013).

17. [illegible], D. et al. [illegible] E[illegible].

506675 [illegible]); EGA [illegible] (G[illegible] F[illegible] E[illegible]; D[illegible] 01[illegible] 0917D); B[illegible] B[illegible] S[illegible] C[illegible], D[illegible] E[illegible] C[illegible], S[illegible] G[illegible] I[illegible] I[illegible] ([illegible] /H[illegible]); A[illegible]; D[illegible] B[illegible] U[illegible], G[illegible] F[illegible] (DFG BA 4438/1-1); EC F[illegible] 5[illegible] EAS[illegible] (Q[illegible] 2001 01495); EC F[illegible] 7[illegible] S[illegible]E[illegible] (244090[illegible] .S[illegible]E[illegible]), EC F[illegible] 7[illegible] IBE[illegible]A[illegible] (311781[illegible] 7[illegible]); EC F[illegible] 7[illegible] SCA[illegible] ES[illegible]), D[illegible] E[illegible] A[illegible] (B[illegible]-11-011.01-011); F[illegible] A[illegible] (CASDA[illegible]. 9035); [illegible] CIF[illegible]E[illegible] D[illegible] GE[illegible] E[illegible] /FA[illegible] G[illegible] ([illegible]); BIE B[illegible] B[illegible] C11[illegible]1309; F[illegible] A[illegible] A[illegible], H[illegible] S[illegible] F[illegible] A[illegible] 101940)[illegible] S[illegible]