Supplementary Material S2
Complete Database Search Strategies and Reproducibility Information

1. Overview

The literature search was conducted on 9 June 2026 in Scopus and Web of Science Core Collection. The strategy combined four conceptual blocks covering bio-based inputs, adoption-related constructs, agricultural actors or crop-production contexts, and survey-based or stated-preference methods. No publication-year restriction was applied. The database-specific search settings, exact search strings, filters, and record counts are reported below to support reproducibility.

The initial searches retrieved 1,904 records in total: 814 from Scopus and 1,090 from Web of Science. The retrieved records were then restricted to Document Type = Article and Language = English before deduplication, retaining 691 Scopus records and 973 Web of Science records (1,664 records in total).

2. Scopus search strategy

Database	Scopus
Search date	09 June 2026
Search interface / field	Standard Scopus search interface; Article title, Abstract, Keywords
Publication-year restriction	None
Initial records retrieved	814
Post-retrieval filters	Document Type = Article; Language = English
Records retained after filters	691

Exact search string

```
("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*")
AND
(adoption OR acceptance OR perception* OR attitude* OR intention OR behaviour OR behavior OR barrier* OR driver* OR "willingness to adopt" OR "willingness to pay" OR "willingness to use")
AND
(farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR greenhouse*)
AND
(survey OR questionnaire OR "choice experiment*" OR "stated preference*" OR interview*)
```

Reproducibility note for Scopus: the search string was entered without a TITLE-ABS-KEY wrapper because the search field was selected directly in the standard Scopus interface as Article title, Abstract, Keywords.

3. Web of Science Core Collection search strategy

Database	Web of Science Core Collection
Search date	09 June 2026
Search interface / field	Advanced Search; all-field/default search setting covering title, abstract, keywords, and related topic fields
Publication-year restriction	None
Initial records retrieved	1,090
Post-retrieval filters	Document Type = Article; Language = English
Records retained after filters	973

Exact search string

("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*") AND (adoption OR acceptance OR perception* OR attitude* OR intention OR behaviour OR behavior OR barrier* OR driver* OR "willingness to adopt" OR "willingness to pay" OR "willingness to use") AND (farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR greenhouse*) AND (survey OR questionnaire OR "choice experiment*" OR "stated preference*" OR interview*)

Reproducibility note for Web of Science: The query was run in Web of Science Core Collection using Advanced Search with the All Fields search setting, as recorded in the review search log.

4. Search results and applied restrictions

The table below summarises the number of records retrieved before and after the publication-type and language restrictions. These restrictions were applied before deduplication.

Database	Initial retrieval	After Article + English restrictions
Scopus	814	691
Web of Science	1,090	973
Total	1,904	1,664

5. Reproducibility note

For each database, this supplementary material reports the search date, database-specific search setting, complete search string, publication-year restriction, post-retrieval filters, and record counts. The searches are reproduced using the syntax and terms recorded in the review search log. Supporting protocol and audit materials are archived

in the Open Science Framework project associated with the review. Because bibliographic databases are updated over time, the counts reported here correspond specifically to 9 June 2026.

6. Post hoc targeted sensitivity search

To assess whether the comparatively limited evidence on continued or repeated use and discontinuance was sensitive to the original search specification, a post hoc targeted sensitivity search was conducted on 14 October 2026 in Scopus and Web of Science Core Collection. The exercise was undertaken during peer review and applied the same publication-type, language, and substantive eligibility criteria used in the original review. It was designed as a targeted sensitivity analysis rather than a comprehensive update of the original broad search. The original identification and screening pathway, which yielded 442 eligible articles, remained unchanged. However, six additional eligible articles identified through the targeted search were incorporated into the final evidence synthesis and represented as a supplementary identification pathway in the updated PRISMA flow diagram, bringing the total number of included articles to 448.

Two complementary query sets were used. Query Set 1 retained the original bio-based-input, agricultural actor or crop-production context, and survey-method blocks while adding explicit terms for continued or repeated use, sustained or persistent adoption, post-adoption, discontinuance, dis-adoption, abandonment, cessation, and related outcomes. Query Set 2 broadened sensitivity to alternative post-adoption terminology and omitted the survey-method block. No publication-year restriction was applied. The same Article and English-language restrictions used in the primary search were applied to all four searches; the record counts reported below correspond to the restricted database outputs.

6.1. Query Set 1 - primary targeted query

Scopus

Database	**Scopus**
Search date	**14 October 2026**
Search interface / field	**TITLE-ABS-KEY**
Publication-year restriction	**None**
Post-retrieval filters	**Document Type = Article; Language = English**
Records retained after filters	**47**

Exact search string

TITLE-ABS-KEY(
("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*")
AND

("continued use" OR "continuing use" OR "repeated use" OR "repeat use" OR "sustained use" OR "persistent use" OR "continued adoption" OR "continuing adoption" OR "sustained adoption" OR "persistent adoption" OR "adoption persistence" OR "post-adoption" OR "post adoption" OR postadoption OR continuance OR discontinu* OR disadopt* OR "dis-adopt*" OR abandon* OR cessation)
AND
(farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR greenhouse*)
AND
(survey OR questionnaire OR "choice experiment*" OR "stated preference*" OR interview*)
)

Web of Science Core Collection

Database	**Web of Science Core Collection**
Search date	**14 October 2026**
Search interface / field	**Topic (TS=)**
Publication-year restriction	**None**
Post-retrieval filters	**Document Type = Article; Language = English**
Records retained after filters	**44**

Exact search string

TS=(
("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*")
AND
("continued use" OR "continuing use" OR "repeated use" OR "repeat use" OR "sustained use" OR "persistent use" OR "continued adoption" OR "continuing adoption" OR "sustained adoption" OR "persistent adoption" OR "adoption persistence" OR "post-adoption" OR "post adoption" OR postadoption OR continuance OR discontinu* OR disadopt* OR "dis-adopt*" OR abandon* OR cessation)
AND
(farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR

greenhouse*)
AND
(survey OR questionnaire OR "choice experiment*" OR "stated preference*" OR interview*)
)

6.2. Query Set 2 - complementary sensitivity query

The complementary query used alternative expressions describing persistence, repeated application, discontinued use, dis-adoption, abandonment, reversion, and return to conventional inputs. The survey-method block was omitted to increase sensitivity to post-adoption terminology.

Scopus

Database	**Scopus**
Search date	**14 October 2026**
Search interface / field	**TITLE-ABS-KEY**
Publication-year restriction	**None**
Post-retrieval filters	**Document Type = Article; Language = English**
Records retained after filters	**41**

Exact search string

TITLE-ABS-KEY(
("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*")
AND
("long-term use" OR "long term use" OR "use over time" OR "adoption over time" OR "continued application" OR "repeated application" OR "sustained application" OR "discontinued use" OR discontinuation OR "dis-adoption" OR disadoption OR abandonment OR "stopped using" OR "stop using" OR reversion OR "return to conventional" OR "returned to conventional" OR "switch back" OR "switched back")
AND
(farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR greenhouse*)
)

Web of Science Core Collection

Database	**Web of Science Core Collection**
Search date	**14 October 2026**
Search interface / field	**Topic (TS=)**
Publication-year restriction	**None**
Post-retrieval filters	**Document Type = Article; Language = English**
Records retained after filters	**33**

Exact search string

```
TS=(
("bio-based input*" OR biofertilizer* OR biofertiliser* OR biostimulant* OR biochar OR compost OR digestate OR "organic amendment*" OR "organic fertiliser*" OR "organic fertilizer*" OR biopesticide* OR "bio-pesticide*" OR "biological control" OR "microbial inoculant*" OR "biomass-derived input*")
AND
("long-term use" OR "long term use" OR "use over time" OR "adoption over time" OR "continued application" OR "repeated application" OR "sustained application" OR "discontinued use" OR discontinuation OR "dis-adoption" OR disadoption OR abandonment OR "stopped using" OR "stop using" OR reversion OR "return to conventional" OR "returned to conventional" OR "switch back" OR "switched back")
AND
(farmer* OR grower* OR "farm manager*" OR "agricultural stakeholder*" OR agriculture OR agricultural OR "crop production" OR cropping OR horticulture OR vineyard* OR orchard* OR greenhouse*)
)
```

6.3. Search results and supplementary screening flow

The four database-query combinations retrieved 165 records. After supplementary deduplication, 101 unique records remained. These records were cross-matched against the original 1,203-record title/abstract screening corpus. Twenty-two records were already represented in the original screening corpus and were not re-screened. The remaining 79 records were assessed at title/abstract level using the original eligibility criteria. Records classified as Include or Unclear proceeded to full-text assessment.

Stage	Count	Interpretation
Raw records across four database-query outputs	**165**	**47 Scopus (Query Set 1) + 44**

Stage	Count	Interpretation
		Web of Science (Query Set 1) + 41 Scopus (Query Set 2) + 33 Web of Science (Query Set 2)
Unique records after supplementary deduplication	**101**	**64 duplicate occurrences removed**
Already present in the original 1,203-record screening corpus	**22**	**Not re-screened**
New records screened at title/abstract level	**79**	**64 Exclude; 4 Include; 11 Unclear**
Full texts assessed	**15**	**4 Include + 11 Unclear from title/abstract screening**
Full-text excluded	**9**	**Excluded under the original eligibility rules**
Eligible articles in the sensitivity pathway	**6**	**Incorporated into the final synthesis alongside the 442 articles identified through the original search**
Articles with direct post-adoption evidence	**2**	**Direct distinction between continued/current use and discontinuance or dis-adoption**
Total articles included in the final synthesis	**448**	**442 articles from the original search plus 6 eligible articles from the targeted sensitivity search**

Of the six eligible articles, four primarily contributed current-use or contextual evidence relevant to persistence, whereas two directly distinguished continued or current use from discontinuance or dis-adoption. The latter two studies reconstructed previous and current adoption status retrospectively within cross-sectional surveys rather than through prospective longitudinal follow-up. None of the six supplementary articles added a new direct comparison between a measured pre-adoption intention and subsequent use.

The six eligible articles were extracted and coded through a parallel audit pathway using the same article-level data-charting fields, 23-macro-theme framework and refined SQ3 definitions applied to the original review. Their 31 evidence rows were subsequently integrated with the 2,771 evidence rows extracted from the original

442 articles, resulting in a final synthesis comprising 448 articles and 2,802 evidence rows. The targeted identification and screening pathway was documented separately to preserve the provenance of the original search and distinguish this supplementary exercise from a comprehensive search update. The six additional articles are identifiable in Supplementary Material S3, while the corresponding evidence records retain their source identifiers in the supporting audit materials.