

## AGRICOLA (Agriculture Online Access Database)

|                          |   |   |
|--------------------------|---|---|
| <b>Subject Coverage</b>  | <ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Animal Science</li> <li>• Biotechnology</li> <li>• Chemistry</li> <li>• Energy</li> <li>• Entomology</li> <li>• Food Science</li> <li>• Forestry</li> <li>• Genetics</li> </ul>   | <ul style="list-style-type: none"> <li>• Home Economics</li> <li>• Life Sciences</li> <li>• Natural Resources</li> <li>• Nutrition</li> <li>• Pesticides</li> <li>• Plant Diseases</li> <li>• Rural Society</li> <li>• Soil Science</li> <li>• Veterinary Medicine</li> </ul> |
| <b>File Type</b>         | Bibliographic   |   |
| <b>Features</b>          | Thesaurus      Controlled Term (/CT)<br>Geographic Term (/GT)   |   |
|                          | <a href="#">Alerts (SDIs)</a> Monthly   |   |
|                          | CAS Registry Number <sup>®</sup> Identifiers <input type="checkbox"/>   | Page Images <input type="checkbox"/>  |
|                          | <a href="#">Keep &amp; Share</a> <input checked="" type="checkbox"/>  | <a href="#">SLART</a> <input checked="" type="checkbox"/>   |
|                          | Learning Database <input type="checkbox"/>  | Structures <input type="checkbox"/>   |
|                          | STN <sup>®</sup> AnaVist <sup>™</sup> <input type="checkbox"/>  |   |
|                          | STN Easy <sup>®</sup> <input type="checkbox"/>  |   |
| <b>Record Content</b>    | <ul style="list-style-type: none"> <li>• Worldwide coverage of agriculture and related fields</li> <li>• Records contain bibliographic information, geographic terms, controlled terms, and supplementary terms that include GenBank Numbers</li> <li>• Abstracts are available for about 20% of records</li> </ul> |   |
| <b>File Size</b>         | More than 6.1 million records (05/2018)   |   |
| <b>Coverage</b>          | 1970-present  |   |
| <b>Updates</b>           | Monthly   |   |
| <b>Language</b>          | English   |   |
| <b>Database Producer</b> | National Agricultural Library (NAL)<br>U.S. Department of Agriculture (USDA)<br>10301 Baltimore Avenue<br>Beltsville, MD 20705  |   |
| <b>Database Supplier</b> | FIZ Karlsruhe<br>STN Europe<br>P.O. Box 2465<br>76012 Karlsruhe<br>Germany<br>Phone: +49-7247-808-555<br>Fax: +49-7247-808-259<br>Email: <a href="mailto:helpdesk@fiz-karlsruhe.de">helpdesk@fiz-karlsruhe.de</a>   |   |

**Sources**

- Bibliographies
  - Serial Articles
  - Book Chapters
  - Monographs
  - Computer Files
  - Serials
  - Maps
  - Audiovisuals
  - Reports
  - Catalogs and chemical libraries from suppliers worldwide
- 

**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- 

**Clusters**

- AGRICULTURE
  - AUTHORS
  - ALLBIB
  - BIOSCIENCE
  - CHEMISTRY
  - COMPANIES
  - CORPSOURCE
  - ENVIRONMENT
  - FOOD
  - MEETINGS
  - TOXICOLOGY
- [STN Database Clusters](#) information (PDF).
- 

**Pricing**

Enter HELP COST at an arrow prompt (=>).

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*).

| Search Field Name  | Search Code          | Search Example  | Display Codes                         |
|--|----------------------|---|---------------------------------------|
| Basic Index *(contains single words from the title (TI), CABA and Library of Congress controlled term (CT), supplementary term (ST), abstract (AB), named person (NA), corporate name (CO), note (NTE), geographic term, CABA and other (GT) fields) | None<br><br>(or /BI) | S FORAGING<br><br>S NATURAL PEST CONTROL?<br><br>S STATE (L) COUNCIL#<br><br>S GENBANK U35001 | AB, CO, CT,<br>GT, NA, NTE,<br>ST, TI |
| Abstract*  | /AB                  | S (ORGANIC COMPOUND?)/AB  | AB                                    |
| Accession Number   | /AN                  | S 1998:2795/AN  | AN                                    |
| Author   | /AU                  | S LEMASTERS J?/AU   | AU                                    |
| Availability (contains codes for filing and holding locations, NAL and Library of Congress call numbers designations)  | /AV                  | S L1 AND DNAL/AV<br>S MARINE SCIENCES AND DLC/AV<br>S MIU/AV                                  | AV                                    |
| Classification Code (1)  | /CC                  | S DAIRY/CC<br>S CONSUMER ECONOMICS/CC   | CC                                    |
| Corporate Name (1)   | /CO                  | S RESEARCH CENTER/CO  | CO                                    |
| Controlled Term, CABA and Library of Congress (2)  | /CT                  | S CINCHONA/CT<br>S ACID RAIN+ALL/CT   | CT                                    |
| Controlled Word (contains single words from CABA controlled terms and Library of Congress controlled terms)  | /CW                  | S (AGRICULTUR? (S) WORK#)/CW  | CT                                    |
| Corporate Source (1)   | /CS                  | S DEPARTMENT OF AGRICULTURE/CS<br>S "ROSS LABORATORIES"/CS                                    | CS                                    |
| Country of Publication (ISO code and text)   | /CY                  | S L1 AND GB/CY  | CY                                    |
| Document Number  | /DN                  | S IND20496956/DN  | DN                                    |
| Document Type (code and text)  | /DT<br>(or /TC)      | S L5 AND C/DT   | DT                                    |
| Entry Date (3)   | /ED                  | S ED>=JAN 2012  | ED                                    |
| Field Availability   | /FA                  | S AB/FA   | FA                                    |
| File Segment   | /FS                  | S TRANSLATION/FS  | FS                                    |
| Geographic Term, CABA and other (2)  | /GT                  | S EAST ASIA/GT<br>S SHANGHAI+BT/GT  | GT                                    |
| International Standard (Document) Number (contains CODEN, ISSN, and ISBN)  | /ISN                 | S 1000-1298/ISN   | ISN, SO                               |
| Journal Title (contains full and abbreviated title)  | /JT                  | S JOURNAL OF AGRIBUSINESS/JT<br>S J AGRIBUSINESS/JT   | JT, JTA, JTF,<br>SO                   |
| Language (ISO code and text)   | /LA                  | S FR/LA   | LA                                    |
| Meeting Title (1)  | /MT                  | S WORLD PARKS/MT  | MT, SO                                |
| Meeting Location (1)   | /ML                  | S SAN DIEGO/ML  | ML, SO                                |
| Meeting Year (3)   | /MY                  | S 1995-1996/MY  | MY, SO                                |
| Named Person   | /NA                  | S OBAMA MICHELLE/NA   | NA                                    |
| Note   | /NTE                 | S NOTEBOOK#/NTE   | NTE                                   |
| Number of Report   | /NR                  | S AEC/NR  | NR                                    |

## Search and Display Field Codes (cont'd)

| Search Field Name  | Search Code | Search Example   | Display Codes |
|--|-------------|--|---------------|
| Publication Year (3)   | /PY         | S 1996/PY  | PY, SO        |
| Publisher  | /PB         | S SPRINGER NEW YORK/PB   | PB, SO        |
| Source (contains publication title, collation information (volume, issue, pagination), meeting information, ISBN, ISSN, CODEN, publication date, publication frequency, Library of Congress control number, publication status, publisher, editors, government source, etc.) | /SO         | S (CHROMATOGRAPHY AND ELSEVIER)/SO<br>S JCRAEY/SO<br>S VOLUME/SO | SO            |
| Summary Language (code and text)   | /SL         | S EN/SL  | SL            |
| Supplementary Term (includes GenBank Numbers)  | /ST         | S NEST ABANDONMENT/ST<br>S GENBANK U51451/ST                     | ST            |
| Title*   | /TI         | S (RUN OFF OR RUNOFF)/TI   | TI            |
| Update Date (3)  | /UP         | S L4 AND UP>NOV 2012   | ED            |
| Word Count, Title (3)  | /WC.T       | S WC.T<3   | WC.T          |

- (1) Search with implied (S) proximity is available in this field.  
 (2) There is an online thesaurus associated with this field.  
 (3) Numeric search field that may be searched using numeric operators or ranges.

## Property Fields<sub>1)</sub>

In AGRICOLA a numeric search for a specific set of physical properties (/PHP) is available within the abstract and title fields. The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in the abstract and title fields. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

| Field Code | Property                                      | Unit                     | Search Examples                              |
|------------|---|--------------------------|--|
| /AOS       | Amount of substance                           | Mol                      | S 10/AOS                                     |
| /BIR       | Bit Rate                                      | Bit (Bit)                | S 100000-160000/BIR                          |
| /BIT       | Stored Information                            | Bit                      | S BIT > 3 MEGABIT (10A) STORAGE              |
| /CAP       | Capacitance                                   | Farad                    | S 1-10 MF/CAP                                |
| /CDN       | Current Density                               | Ampere/Square Meter      | S CDN>5 A/M**2                               |
| /CMOL      | Molarity (Concentration, amount of substance) | mol/l                    | S MOLYBD?/BI (S) 2/CMOL                      |
| /CON       | Conductance                                   | S (Siemens)              | S 1E-2/CON                                   |
| /DB        | Decibel                                       | Decibel                  | S DB>50                                      |
| /DEG       | Degree  | Degree                   | S (POLARI? (S) ANGLE)/BI (S) 45/DEG          |
| /DEN       | Density (Mass Density)                        | Kg/m <sup>3</sup>        | S (METHOD? (S) COMPO?)/AB (S) 5E-3-10E-3/DEN |
| /DEQ       | Dose Equivalent                               | Sievert                  | S DEQ>0.5 (S) RADIATION                      |
| /DOS       | Dosage  | Milligram/Kilogram       | S DOS>0.8                                    |
| /DV        | Viscosity, dynamic                            | Pa * s (Pascal * second) | S DV>5000                                    |

Property Fields<sup>1)</sup> (cont'd)

| Field Code              | Property                                    | Unit                     | Search Examples                                |
|-------------------------|---|--------------------------|--|
| /ECH<br>/ECO            | Electric Charge<br>Electrical Conductivity  | Coulomb<br>Siemens/Meter | S 15/ECH<br>S ECO>5000 (XA) GEOTHERMAL EFFECTS |
| /ELC<br>/ELF            | Electric Current<br>Electric Field          | Ampere<br>Volt/Meter     | S 1-10/ELC<br>S 1-10/ELF                       |
| /ENE                    | Energy                                      | J (Joule)                | S NUTRIENTS AND 100/ENE                        |
| /ERE                    | Electrical Resistivity                      | Ohm * Meter              | S ERE>10                                       |
| /FOR                    | Force                                       | N (Newton)               | S 50 N/FOR                                     |
| /FRE                    | Frequency                                   | Hz (Hertz)               | S ANALY?/AB (10A) 0-3/FRE                      |
| /IU                     | International Unit                          | none                     | S IU>100 (P) INTERFERON                        |
| /KV                     | Viscosity, kinematic                        | m <sup>2</sup> /s        | S LUBRICANT/BI (S) 10E-5/KV                    |
| /LEN (or /SIZ)<br>/LUME | Length<br>Luminous<br>Emittance/Illuminance | Meter<br>Lux             | S 1-4/LEN<br>S 10-50/LUME                      |
| /LUMF                   | Luminous Flux<br>(Luminous Power)           | Lumen                    | S FLUID (P) LUMF>3                             |
| /LUMI                   | Luminous Intensity                          | Candela                  | S 5<LUMI<15                                    |
| /M                      | Mass  | Kg (Kilogram)            | S ALLOY/BI (30A) 1E-10-1E-5/M                  |
| /MFD (or /MFS)          | Magnetic Flux Density                       | Tesla                    | S MFD>0E-3(S)MAGNETIC RESONANCE                |
| /MFR (or /MFL)          | Mass Flow Rate                              | Kilogram/Second          | S MFR>1.2                                      |
| /MM                     | Molar Mass                                  | g/mol                    | S 2000-3000 G/MOL/MM                           |
| /MOLS                   | Molality of Substance                       | mol/kg                   | S 01.-10 mol/kg/MOLS                           |
| /PER                    | Percent (Proportionality)                   | Percent                  | S (TITAN? (3A) DIOXID?)/AB (S) 53/PER          |
| /PHV                    | pH  | pH                       | S 7.4-7.6/PHV                                  |
| /POW                    | Power                                       | W (Watt)                 | S (SOLAR? OR PHOTOVOLTAIC?)/BI (10A) 5-10/POW  |
| /PRES (or /P)           | Pressure                                    | Pa (Pascal)              | S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES |
| /RAD                    | Radioactivity                               | Bq (Becquerel)           | S RAD>100                                      |
| /RES                    | Electrical<br>Impedance/resistance          | Ohm                      | S VOLTAGE/AB (P) 1-10/RES                      |
| /RSP                    | Rotational Speed                            | Revolution/Minute        | S 5000-8000/RSP AND PARAFFIN                   |
| /SAR                    | Area /Surface Area                          | m <sup>2</sup>           | S (COATING? OR FOIL?)/BI (S) 10-100/SAR        |
| /SOL                    | Solubility                                  | Gram/100 gram            | S SOL>20 (10W) WATER                           |
| /STSC                   | Surface Tension                             | J/m <sup>2</sup>         | S 60 J/M**2 /STSC                              |
| /TCO                    | Thermal Conductivity                        | K (Kelvin)               | S 2-17/TCO (S) THERM?                          |
| /TEMP (or /T)           | Temperature                                 | K (Kelvin)               | S (STABILITY (25A) VITAMIN?) (S) 10/TEMP       |
| /TIM                    | Time  | S (Second)               | S CONDUCT?/AB (10W) 0-1/TIM                    |
| /VEL (or /V)            | Velocity                                    | m/s (Metre per Second)   | S EVOL?/BI AND 2E-4-5E-4/VEL                   |
| /VELA                   | Velocity, angular                           | rpm                      | S VISCO?/AB (S) VELA<350                       |
| /VLR                    | Volumetric Flow Rate                        | Cubic Meter/Second       | S 1-10/VLR (XA) VARIABILITY                    |
| /VOL                    | Volume                                      | m <sup>3</sup>           | S ?EFFECT?/BI (15A) 1E-8-2E-8 /VOL             |
| /VOLT                   | Voltage                                     | V (Volt)                 | S APPLICATION/BI(10A) 5E-3<VOLT<7E-3           |

(1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.00000092).

## Thesaurus Fields

Thesauri are present for the Controlled Term (/CT) and Geographic Term (/GT) search fields in the AGRICOLA File. The following Relationship Codes may be used with both the SEARCH and EXPAND commands in these fields.

### Controlled Term (/CT)

| Relationship Code | Content  | Example  |
|-------------------|--|--|
| ALL<br>AUTO (1)   | All associated terms (SELF, BT, USE, UF, NT, RT)<br>Narrower Terms (SELF, NT)  | E BACTERIAL INSECTICIDES+ALL/CT<br>E ORGANOCHLORINE<br>INSECTICIDES+AUTO/CT  |
| BT<br>HIE         | Broader Terms (SELF, BT)<br>Hierarchy terms (all broader and<br>Narrower Terms) (SELF, BT, NT)   | E WEED CONTROL+BT/CT<br>E VIRAL INSECTICIDES+HIE/CT                          |
| KT<br>NT          | Keyword Terms (SELF, KT)<br>Narrower Terms (SELF, NT)  | E CONTROL+KT/CT<br>E ECOLOGY+NT/CT   |
| PFT<br>RT<br>STD  | All Preferred and Forbidden Terms (SELF, USE)<br>Related (see also) terms (SELF, RT)<br>All Broader, Narrower, and Related Terms<br>(SELF, BT, NT, RT) | E NATURAL BALANCE+PFT/CT<br>E RAINY SEASON+RT/CT<br>E DISEASE CONTROL+STD/CT |
| UF<br>USE         | Used For terms (Forbidden Terms) (SELF, UF)<br>Use terms (Preferred Terms) (SELF, USE)   | E DROUGHT RESISTANCE+UF/CT<br>E DROUGHT TOLERANCE+USE/CT                     |

(1) Automatic Relationship Code is SET OFF. If you SET RELATION ON, the result of EXPAND without any relationship code is the same as described for AUTO.

### Geographic Term (/GT)

| Relationship Code | Content  | Example  |
|-------------------|--|--|
| ALL<br>AUTO (1)   | All associated terms<br>(SELF, BT, NOTE, USE, UF, NT, RT)<br>Narrower Terms (SELF, NT)   | E UK+ALL/GT<br>S SCOTLAND+AUTO/GT  |
| BT<br>HIE         | Broader Terms (SELF, BT)<br>Hierarchy Terms (all Broader and Narrower Terms)<br>(SELF, BT, NT)   | E CONNECTICUT+BT/GT<br>E USA+HIE/GT  |
| KT<br>NT          | Keyword Terms (SELF, KT)<br>Narrower Terms (SELF, NT)  | E AMERICA+KT/GT<br>S ECUADOR+NT/GT   |
| PFT<br>RT<br>STD  | All Preferred and Forbidden Terms (SELF, USE, UF)<br>Related (see also) Terms (SELF, RT)<br>All Broader, Narrower, and Related Terms<br>(SELF, BT, NT, RT) | E UNITED STATES OF AMERICA+PFT/GT<br>E PUERTO RICO+RT/GT<br>E CARIBBEAN+STD/GT |
| UF<br>USE         | Used For terms (Forbidden Terms)<br>(SELF, UF)<br>Use terms (Preferred Terms)<br>(SELF, USE)   | E USA+UF/GT<br>E BRITAIN+USE/CT  |

(1) Automatic Relationship Code is SET OFF. If you SET RELATION ON, the result of EXPAND without any relationship code is the same as described for AUTO.

## Thesaurus Field Descriptors

| Code       | Description                   |
|------------|-------------------------------|
| SELF (-->) | Thesaurus Term                |
| BT         | Broader Term                  |
| KT         | Keyword Term (Permuted Index) |
| NOTE       | Note                          |
| NT         | Narrower Term                 |
| RT         | Related Term                  |
| UF         | Forbidden Term                |
| USE        | Preferred Term                |

## DISPLAY and PRINT Formats

Any combination of formats listed below may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI SO, D L1 1-5 TI,SO. The fields are displayed in the order requested.

Hit-term highlighting is available in all fields. Highlighting must be on during SEARCH in order to use the HIT, KWIC, and OCC formats.

| Format   | Content  | Examples    |
|----------|--|-------------|
| AB       | Abstract   | D TI AB     |
| AN       | Accession Number   | D AN        |
| AU       | Author   | D AU CS 1-5 |
| AV       | Availability   | D AV        |
| CC       | Classification Code  | D 2 4 6 CC  |
| CO       | Corporate Name   | D CO        |
| CS       | Corporate Source   | D CS 1,25   |
| CT       | Controlled Term, CABA and Library of Congress                | D CT        |
| CY       | Country of Publication                                       | D CY        |
| DN       | Document Number  | D AN DN     |
| DT (TC)  | Document Type  | D DT        |
| FS       | File Segment   | D FS        |
| GT       | Geographic Term, CABA and other                              | D GT        |
| ISN (1)  | International Standard (Document) Number (CODEN, ISBN, ISSN) | D ISN       |
| JT (1)   | Journal Title (JTF and JTA)                                  | D JT        |
| JTA (1)  | Journal Title, Abbreviated                                   | D JTA       |
| JTF (1)  | Journal Title, Full  | D JTF       |
| LA       | Language   | D LA SL     |
| ML (1)   | Meeting Location   | D ML        |
| MT (1)   | Meeting Title  | D MT        |
| MY (1)   | Meeting Year   | D MY        |
| NA       | Named Person   | D NA        |
| NTE      | Note   | D NTE       |
| NR       | Number of Report   | D NR        |
| PB (1)   | Publisher  | D PB        |
| PY (1)   | Publication Year   | D JT PY     |
| SL       | Summary Language   | D LA SL     |
| SO       | Source   | D SO        |
| ST       | Supplementary Term   | D CT ST     |
| TI       | Title  | D TI        |
| WC.T (1) | Word Count, Title  | D WC.T      |

**DISPLAY and PRINT Formats (cont'd)**

| Format                                  | Content   | Examples                      |
|---|---|-------------------------------|
| IABS<br>ALL                             | ABS, with a text label<br>AN, DN, TI, AU, CS, NR, SO, NTE, CY, DT, FS, LA, SL, AV, ED, AB, CC, GT, CT,<br>ST, NA, CO  | D IABS<br>D L3 2 ALL          |
| DALL<br>IALL<br>BIB                     | ALL, delimited for post-processing<br>ALL, indented with text labels<br>AN, DN, TI, AU, CS, NR, SO, NTE, CY, DT, FS, LA, SL, AV, ED<br>(BIB is the default)         | D DALL<br>D L7 6 IALL<br>D 1- |
| IBIB<br>IND<br>SCAN (2)                 | BIB, indented with text labels<br>AN, CC, GT, CT, ST, NA, CO<br>TI, CC, GT, CT, ST, NA, CO<br>(random display without answer numbers)                               | D IBIB<br>D IND<br>D SCAN     |
| TRIAL (TRI,<br>SAM,<br>SAMPLE,<br>FREE) | TI, CC, GT, CT, ST, NA, CO  | D SAM 2-4, 10                 |
| HIT<br>KWIC<br>OCC                      | Fields containing hit terms<br>Hit terms plus 50 words on either side<br>(Key-Word-In-Context)<br>Number of occurrences of hit terms and fields in which they occur | D HIT<br>D KWIC<br>D OCC      |

(1) Custom display only.

(2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.



## SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers or an L-number containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

| Field Name                                    | Field Code | ANALYZE/<br>SELECT (1) | SORT |
|---|------------|------------------------|------|
| Abstract                                      | AB         | Y                      | N    |
| Accession Number                              | AN         | Y                      | N    |
| Author  | AU         | Y                      | Y    |
| Availability                                  | AV         | Y                      | Y    |
| Citation                                      | CIT        | Y (2,3)                | N    |
| Classification Code                           | CC         | Y                      | Y    |
| CODEN   | CODEN      | N                      | Y    |
| Controlled Term, CABA and Library of Congress | CT         | Y                      | N    |
| Corporate Name                                | CO         | Y                      | Y    |
| Corporate Source                              | CS         | Y                      | Y    |
| Country of Publication                        | CY         | Y                      | Y    |
| Document Number                               | DN         | Y                      | Y    |
| Document Type                                 | DT (TC)    | Y                      | Y    |
| File Segment                                  | FS         | Y                      | Y    |
| Geographic Term, CABA and other               | GT         | Y                      | Y    |
| International Standard Book Number            | ISBN       | N                      | Y    |
| International Standard (Document) Number      | ISN        | Y (4)                  | N    |
| International Standard Serial Number          | ISSN       | N                      | Y    |
| Journal Title                                 | JT         | Y                      | Y    |
| Journal Title, Abbreviated                    | JTA        | Y (5)                  | Y    |
| Journal Title, Full                           | JTF        | Y (5)                  | Y    |
| Language                                      | LA         | Y                      | Y    |
| Meeting Location                              | ML         | Y                      | Y    |
| Meeting Title                                 | MT         | Y                      | Y    |
| Meeting Year                                  | MY         | Y                      | Y    |
| Named Person                                  | NA         | Y                      | Y    |
| Note  | NTE        | Y                      | N    |
| Number of Report                              | NR         | Y                      | Y    |
| Occurrence Count of Hit Terms                 | OCC        | N                      | Y    |
| Publisher                                     | PB         | Y                      | Y    |
| Publication Year                              | PY         | Y                      | Y    |
| Source  | SO         | Y (6)                  | N    |
| Summary Language                              | SL         | Y                      | Y    |
| Supplementary Term                            | ST         | Y                      | N    |
| Title   | TI         | Y (default)            | Y    |
| Word Count, Title                             | WC.T       | Y                      | Y    |

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT CT.
- (2) SELECT HIT and ANALYZE HIT are not valid with this field.
- (3) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (4) Selects or analyzes the CODEN, ISBN, and ISSN with /ISN appended to the terms created by SELECT.
- (5) Appends /JT to the terms created by SELECT.
- (6) Selects or analyzes the CODEN, ISBN, and ISSN with /SO appended to the terms created by SELECT.

## Sample Records

## DISPLAY ALL OF JOURNAL

AN 2012:26 AGRICOLA  
 DN IND44618682  
 TI Potential uses for cuphea oil processing byproducts and processed oils  
 AU Tisserat, Brent; O'kuru, Rogers Harry; Cermak, Steven C; Evangelista, Roque L; Doll, Kenneth M  
 SO Industrial crops and products (2012), Volume 35, Number 1, pp. 111-120  
 Source Note: 2012 Jan., v. 35, no. 1  
 NTE Electronic resource: <http://dx.doi.org/10.1016/j.indcrop.2011.06.019>  
 (Available from publisher's Web site)  
 DT Journal; Article  
 FS Non-US  
 LA English  
 AV DNAL (SB13.I52)  
 ED Entered STN: 4 Jan 2012  
 Last updated on STN: 4 Jan 2012  
 AB Summary: Cuphea spp. have seeds that contain high levels of medium chain fatty acids and have the potential to be commercially cultivated. In the course of processing and refining cuphea oil a number of byproducts are generated. Developing commercial uses for these byproducts would improve the economics of growing cuphea. Oil fractions and byproducts were obtained from processed seeds of cuphea germplasm line PSR 23 (*Cuphea viscosissima* × *Cuphea lanceolata*). We investigated the employment of oil byproducts as growth regulators and solid residues as organic soil amendments on Calabrese broccoli (*Brassica oleracea* L, family Brassicaceae) seedling growth. Seed processing solid residue fractions, included presscake, bin trash, stem trash and seed trash. These fractions were ground and mixed into soil to obtain concentrations of 0, 0.5, 1, 3, and 10% (w/w). Ground presscake and bin trash could be employed as an organic soil amendment up to 1% without detrimental effects on broccoli. Ground seed meal (seed trash) was detrimental to seedling growth at all concentrations tested. Stem trash employed at 1% caused fresh and dry weights to increase 26.8 and 29.8%, respectively, compared to untreated broccoli seedlings. Stem trash could be employed up to 10% without a detrimental effect on broccoli seedlings. Solvent extraction to remove residual oils from residue fractions was also conducted to generate improved soil amendments. Generally, solvent extraction of seed-processing residue fractions improved the broccoli seedling growth responses. Administration of processed oils and their byproduct fractions as foliar sprays on broccoli seedlings was conducted at rates of 0, 10, 30, and 50 g L<sup>-1</sup>. Plants were evaluated 72 h after spraying. Refined and crude oils had no effect on broccoli seedlings; gums and soapstock sprays had no effect at 10 or 30 g L<sup>-1</sup> concentrations but at 50 g L<sup>-1</sup> it killed seedlings. Distilled fatty acid fraction sprays killed broccoli seedlings at all tested concentrations. Certain oil byproduct fractions from cuphea oil processing can be employed as ;environmentally-friendly; herbicidal sprays. Calorific evaluation of cuphea ag-wastes were conducted and found to compare well to other biomass energy sources.  
 CC W000 Pollution; J500 Soil Fertility, Fertilizers and Manures; F600 Plant Physiology and Biochemistry  
 CT Cuphea; cuphea seed oil; processing waste; soil amendments; Brassica oleracea var. italica; seedling growth  
 ST Cuphea viscosissima; Cuphea lanceolata

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**In North America**

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JALCI (Japan Association for  
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STN Japan  
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6-25-4 Honkomagome, Bunkyo-ku  
Tokyo 113-0021, Japan  
Phone: +81-3-5978-3601 (Technical Service)  
+81-3-5978-3621 (Customer Service)  
Fax: +81-3-5978-3600  
Email: support@jaici.or.jp (Technical Service)  
customer@jaici.or.jp (Customer Service)  
Internet: www.jaici.or.jp