DELIBERAZIONE DELLA GIUNTA REGIONALE 12 giugno 2018, n. 1004

Attuazione DGR n.896/2017. Approvazione "Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi".

L'Assessore alle Infrastrutture, con delega alle Risorse Idriche, avv. Giovanni Giannini, di concerto con l'Assessore alle Risorse Agroalimentari, dott. Leonardo Di Gioia, sulla base dell'istruttoria operata dai funzionari istruttori e confermata dal Dirigente della Sezione Risorse Idriche, riferiscono quanto segue.

PREMESSO:

- che Il D. Lgs. 152/06, recante "*Norme in materia ambientale*", in adempimento a quanto disposto dalla Direttiva Quadro Acque 2000/60/CE, persegue la salvaguardia, la tutela e il miglioramento della qualità ambientale delle risorse idriche. A tal fine, ai sensi dell'art. 120, le regioni elaborano e attuano programmi per la conoscenza e la verifica dello stato qualitativo e quantitativo delle acque superficiali e sotterranee;
- che la Direttiva 2009/128/CE, recepita con il Decreto Legislativo del 14 agosto 2012, n. 150, ha istituito un "quadro per l'azione comunitaria ai fini dell'utilizzo sostenibile dei pesticidi", individuando le misure appropriate per tutelare l'ambiente acquatico e le fonti di approvvigionamento di acqua potabile dall'impatto dei pesticidi;
- che, in attuazione del richiamato D.Lgs. n. 150/2012, con Decreto interministeriale 22 gennaio 2014 è stato adottato il Piano d'Azione Nazionale (PAN) per l'uso sostenibile dei prodotti fitosanitari, che prevede a carico delle Regioni l'implementazione, nell'ambito dei programmi di rilevazione di cui al succitato art. 120 del D.Lgs n. 152/2006, del monitoraggio dei residui dei prodotti fitosanitari nelle acque, tenendo conto degli indirizzi specifici forniti dall'Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA) per quanto riguarda la metodologia di scelta delle sostanze da ricercare in via prioritaria, i metodi per il campionamento, l'analisi e il controllo di qualità.

CONSIDERATO:

- che la Regione Puglia, ai sensi dell'art. 120 del D.Lgs. 152/2006, garantisce il monitoraggio dei corpi idrici superficiali e sotterranei regionali mediante specifici Programmi approvati con DGR n. 1045/2016 - *Programma di Monitoraggio qualitativo dei corpi idrici superficiali 2016-2018* - e con DGR n. 224/2015 - *Progetto di monitoraggio dei corpi idrici sotterranei denominato Progetto Maggiore* - la cui esecuzione, per gli aspetti qualitativi, è in capo all'Agenzia Regionale per la Prevenzione e la Protezione dell'Ambiente della Puglia (di seguito ARPA Puglia) - Organo Tecnico della Regione Puglia istituito e disciplinato con L.R. n. 6/99 e ss. mm. ii.;
- che per entrambe le tipologie di corpi idrici, nell'ambito dei rispettivi protocolli analitici sono già effettuate indagini relative ad alcune sostanze identificate come pesticidi:
  - per le acque superficiali, i protocolli analitici sono comprensivi dei pesticidi inclusi nelle tab. 1/A e 1/B del D. Lgs. 152/2006 e ss. mm. e ii.;
  - per le acque sotterranee, il protocollo analitico del *Progetto Maggiore* è comprensivo di una rete Integrativa per il monitoraggio del Fitofarmaci, definita sulla base degli esiti delle pregresse attività di monitoraggio (*Progetto Tiziano*) e sulla base del documento "*Attività finalizzate alla redazione del Piano regionale della Puglia per il controllo e la valutazione di eventuali effetti derivanti dall'utilizzazione dei prodotti fitosanitari sui comparti ambientali vulnerabili*", redatto, nel novembre 2009, da SOGESID S.p.A. per il Commissario delegato per l'Emergenza Ambientale in Puglia;
- che la Regione Puglia, coerentemente con gli obiettivi del D.Lgs.150/2012 e in adempimento a quanto disposto dal Decreto interministeriale 22 gennaio 2014 (PAN - sezione C.1 - Monitoraggio delle sostanze

attive fitosanitarie nelle acque superficiali e sotterranee), ha costituito con DGR n. 896/2017 uno specifico Gruppo di lavoro - composto dalle Sezioni regionali "Risorse idriche", "Osservatorio Fitosanitario" e "Promozione della Salute e del Benessere", da ARPA Puglia e dal CNR IRSA di Bari - con le finalità di individuare, nell'ambito delle reti di monitoraggio già esistenti ai sensi dell'art. 120 del D.Lgs. 152/2006, le sottoreti specifiche per le indagini dei residui dei prodotti fitosanitari nelle acque superficiali e sotterranee e di definirne il relativo Programma di monitoraggio;

- che, con la stessa deliberazione, il CNR IRSA di Bari è stato individuato quale soggetto coordinatore tecnico - scientifico delle attività del Gruppo di Lavoro ed è stato approvato lo schema di convenzione regolante i rapporti tra Regione Puglia, l'Arpa Puglia e il CNR IRSA di Bari, convenzione poi sottoscritta digitalmente in data 5 Luglio 2017;
- che le attività del Gruppo di Lavoro sono state avviate nel Luglio 2017 e hanno visto un intenso lavoro di scambio e condivisione delle seguenti informazioni e documenti, già nella disponibilità di ognuno dei soggetti coinvolti:
  - dati di monitoraggio dei corpi idrici superficiali e sotterranei, riferiti al biennio 2015 -2016
  - esiti derivanti dalle attività di controllo per individuare i residui dei fitosanitari sui prodotti alimentari di produzione agricola locale, svolte da Arpa Puglia nell'ambito del Piano Regionale dei Controlli Ufficiali in materia di sicurezza alimentare, riferiti al biennio 2015 -2016
  - orientamento e distribuzione colturale pugliese (estrapolando i dati dal 6° Censimento generale dell'agricoltura - Censimento Agricoltura 2010 - e dalla carta dell'uso del suolo - dati del progetto Corine Land Cover 2011)
  - presenza di campi da golf e di impianti fotovoltaici sul territorio regionale
  - dati nazionali di vendita dei prodotti fitosanitari forniti dall'ISTAT 2013 -2015 che hanno rappresentato la base dati su cui è stata definita la rete di monitoraggio e il relativo protocollo analitico;
- che il Gruppo di Lavoro ha definito la metodologia per l'individuazione dei corpi idrici da sottoporre a monitoraggio, nonché delle sostanze da monitorare, tenendo conto degli indirizzi specifici forniti dall'Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA), così come disposto dal D.Lgs. 150/2012 e delle peculiarità territoriali pugliesi; pertanto è stata adottata la metodologia indicata dal documento "*FITOFARMACI Linee Guida per la progettazione del monitoraggio di acque, sedimenti e biota*" (approvato con Delibera del Consiglio SNPA n.29/2018. Seduta del 22.02.2018) e la stessa è stata implementata con le informazioni territoriali disponibili, di cui al punto precedente;
- che, all'esito delle attività svolte, il Gruppo di Lavoro regionale, riunitosi in data 27 Marzo 2018, ha approvato il documento "*Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio*", la cui versione definitiva, con le relative Appendici, è stata trasmessa dal CNR IRSA alla Sezione regionale Risorse Idriche con nota prot. n. 1440 del 5.4.2018, come di seguito riportato:
  - "*Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio*" allegato quale parte integrante e sostanziale del presente provvedimento (**Allegato 1**);
  - "*APPENDICI*" (*Mappe_dettaglio_Corpi_idrici_sotterranei; Mappe_dettaglio_Corpi_idrici_superficiali; Matrici_Riassuntive; Verbali*), depositate agli atti della Sezione Risorse Idriche;
- che, come concordato nella riunione conclusiva del 27.03.2018, il Gruppo di Lavoro potrà essere riconvocato per la risoluzione di eventuali problematiche sia tecniche che amministrative che dovessero presentarsi all'avvio e in itinere delle attività previste dal Programma di monitoraggio.

RILEVATO:

- che la rete regionale per il monitoraggio dei residui dei prodotti fitosanitari, come riportata nel suddetto Programma di Monitoraggio, è stata progettata a partire dalle reti di monitoraggio dei corpi idrici superficiali

e sotterranei già esistenti, configurandosi come sottorete, a meno di alcune stazioni aggiuntive per i corpi idrici superficiali legate a necessità di specifici approfondimenti e consta di:
- n. 98 punti su corpi idrici superficiali
- n. 133 pozzi/sorgenti afferenti ai corpi idrici sotterranei

nei quali andranno ricercate complessivamente un totale di 171 sostanze per i corpi idrici superficiali e 138 sostanze per i corpi idrici sotterranei;

- che pertanto II Programma di Monitoraggio di che trattasi andrà ad integrare i programmi di monitoraggio esistenti per le acque superficiali e sotterranee individuando protocolli analitici sito-specifici per lo studio dei residui dei prodotti fitosanitari;
- il Piano si presenta come strumento dinamico che, sulla base degli esiti delle attività condotte già dal primo anno, associate a una base informativa preesistente, riveniente dalle pregresse attività regionali di monitoraggio dei corpi idrici, nonché in adeguamento ad eventuali aggiornamenti normativi, potrà essere revisionato nella lista dei fitofarmaci da ricercare, nelle frequenze e stazioni di monitoraggio;
- che l'attuazione del monitoraggio ed i risultati emersi consentiranno inoltre di valutare l'identificazione di aree vulnerabili da prodotti fitosanitari, in conformità all'art.93 del D. Lgs. 152/2006, e di individuare eventuali misure cautelative e mitigative attraverso attenta valutazione degli impatti sulla risorsa idrica regionale derivanti dall'uso di tali sostanze.

ATTESO:

- che, al fine di assicurare l'attivazione nel corso del 2018 delle attività di monitoraggio dei residui dei prodotti fitosanitari, la Regione Puglia con nota prot. n. 3456 del 19.3.2018 ha formulato apposita richiesta ad ARPA Puglia, al fine di valutare la disponibilità dell'Agenzia ad integrare opportunamente le attività di monitoraggio qualitativo dei corpi idrici superficiali e sotterranei in corso - di cui risulta già affidataria - unitamente ad una stima dei costi necessari per lo svolgimento di tali attività, al netto del costo degli analiti già ricercati nei due programmi attualmente operativi;
- che ARPA Puglia, con nota prot. n. 20190 del 29/03/2018, ha dichiarato la propria formale disponibilità ad eseguire le attività di monitoraggio dei residui dei prodotti fitosanitari - così come definito nell'ambito del GdL ex DGR n.896/2017 - ad integrazione dei programmi di monitoraggio esistenti, quantificando i costi annuali connessi alle attività integrative per le determinazioni analitiche dei fitosanitari in € 951.338,12 (salvo ricalcoli in corso d'opera dovuti al riesame della lista dei fitofarmaci da ricercare, delle relative frequenze e stazioni di monitoraggio, come precedentemente descritto) distribuito tra le due matrici da indagare come di seguito riportato;
  a) *corpi idrici superficiali: € 566.754,63;*
  b) *corpi idrici sotterranei: € 384.583,49;*
- che con successivo provvedimento si sottoporrà all'approvazione della Giunta regionale la variazione al bilancio annuale 2018 e pluriennale 2018-2020 necessaria a garantire la dotazione finanziaria integrativa utile ad implementare i programmi di monitoraggio esistenti per le acque superficiali e sotterranee con le indagini per lo studio dei residui dei prodotti fitosanitari.

RITENUTO NECESSARIO sottoporre alle determinazioni della Giunta Regionale l'approvazione del "*Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio*" (**ALLEGATO 1**) quale parte integrante e sostanziale del presente provvedimento.

COPERTURA FINANZIARIA AI SENSI DEL D. Lgs. n. 118/2011 e ss. mm, e ii.

La presente Deliberazione non comporta implicazioni di natura finanziaria sia di entrata che di spesa e dalla stessa non deriva alcun onere a carico del bilancio regionale.

Il presente atto rientra nella competenza della Giunta Regionale ai sensi dell'art.4, comma 4, lettera a) e d) della L.R. n. 7/1997 che detta "*norme in materia di organizzazione dell'Amministrazione Regionale*".

L'Assessore alle Infrastrutture, con delega alle Risorse Idriche, avv. Giovanni Giannini, di concerto con l'Assessore alle Risorse Agroalimentari, sulla base delle risultanze istruttorie come innanzi illustrate, propone alla Giunta l'adozione del conseguente atto finale.

LA GIUNTA

Udita la relazione e la conseguente proposta dell'Assessore alle Infrastrutture con delega alle Risorse Idriche e dell'Assessore alle Risorse agroalimentari che si intende qui di seguito integralmente riportato;

Viste le sottoscrizioni poste in calce al presente provvedimento da parte dei funzionari istruttori e del Dirigente della Sezione Regionale "Risorse Idriche" che ne attestano la conformità alla legislazione vigente;

A voti unanimi e palesi, espressi nei modi di legge;

DELIBERA

1. **DI PRENDERE ATTO** di tutto quanto espresso in premessa ed in particolare:
   a. che il CNR IRSA di Bari, a seguito di approvazione da parte del Gruppo di lavoro regionale istituito con DGR n. 896/2017, ha trasmesso con nota prot. n. 1440 del 5.4.2018 il documento "*Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio*", e le relative Appendici, come di seguito riportato:
      - "**Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio**" allegato quale parte integrante e sostanziale del presente provvedimento (**ALLEGATO 1**);
      - APPENDICI (*Mappe_dettaglio_Corpi_idrici_sotterranei; Mappe_dettaglio_Corpi_idrici_superficiali; Matrici_Riassuntive; Verbali*), depositate agli atti della Sezione Risorse Idriche;
   b. che il Gruppo di Lavoro ex DGR 896/2017 potrà essere riconvocato per la risoluzione di eventuali problematiche sia tecniche che amministrative che dovessero presentarsi all'avvio e in itinere delle attività previste dal Programma di monitoraggio;
   c. della disponibilità rappresentata da ARPA Puglia ad eseguire le attività di monitoraggio dei residui dei prodotti fitosanitari di cui al punto precedente, lettera a) mediante integrazione degli attuali programmi di monitoraggio con un piano di costi aggiuntivo pari a € 951.338,12 annui, salvo ricalcoli in corso d'opera come dettagliato in premessa;
2. **DI APPROVARE** il suddetto "***Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio***", riportato in allegato (**ALLEGATO 1**) quale parte integrante e sostanziale del presente provvedimento;
3. **DI DARE ATTO** che le attività previste dal "*Programma di Monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi*" saranno assicurate mediante integrazione degli attuali programmi di monitoraggio per le acque superficiali e sotterranee;
4. **DI DEMANDARE** a successivo provvedimento di Giunta la variazione al bilancio annuale 2018 e pluriennale 2018-2020 necessaria a garantire la dotazione finanziaria integrativa utile ad implementare i programmi di monitoraggio esistenti per le acque superficiali e sotterranee con le indagini per lo studio dei residui dei prodotti fitosanitari;
5. **DI DARE MANDATO** al Dirigente della Sezione regionale "Risorse Idriche" di provvedere agli adempimenti connessi all'attuazione del presente provvedimento;
6. **DI DEMANDARE** alla Sezione regionale Risorse Idriche la trasmissione di copia del presente provvedimento,

all'Autorità di Bacino Distrettuale dell'Appennino Meridionale, alle Sezioni regionali "Osservatorio Fitosanitario" e "Promozione della Salute e del Benessere" per gli eventuali adempimenti di competenza, all'ARPA Puglia, al CNR IRSA di Bari;

7. **DI DISPORRE**, infine, la pubblicazione del presente atto sul Bollettino Ufficiale della Regione Puglia e sul sito internet regionale.

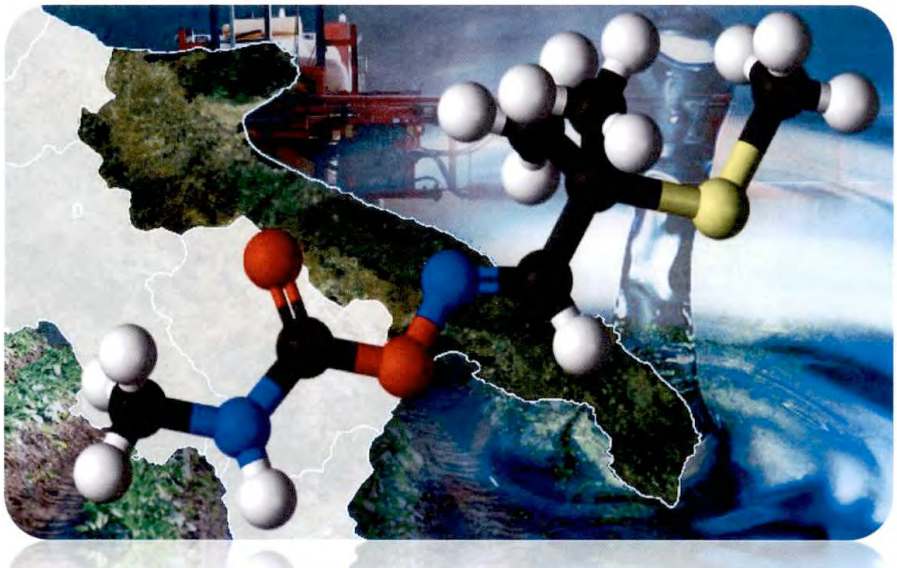
IL SEGRETARIO DELLA GIUNTA
ROBERTO VENNERI

IL PRESIDENTE DELLA GIUNTA
ANTONIO NUNZIANTE

- ALLEGATO 1 -

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi e definizione delle relative reti di monitoraggio



Il presente documento si compone di n. 129 (centoventinove) facciate.

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REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Gruppo di Lavoro

Regione Puglia

- Ing. Andrea Zotti
- Dott. Luca Limongelli (in fase iniziale)
- Arch. Rosangela Colucci
- Dott.ssa Daniela Pagliarulo
- Dott. Silvio Schito
- Dott. Agostino Santomauro
- Dott.ssa Giovanna Rosa

ARPA Puglia

- Dott. Nicola Ungaro
- Dott.ssa Francesca Ferrieri
- Arch. Erminia Sgaramella
- Dott.ssa Mina Lacarbonara
- Dott. Andrea Miccolis

CNR-IRSA (Coordinamento)

- Dott. Vito Felice Uricchio
- Ing. Michele Vurro
- Dott. Carmine Massarelli
- Dott.ssa Valeria Ancona
- Dott. Ciro Galeone
- Ing. Annamaria Basile
- Dott.ssa Rita Masciale
- P.I. Nicola Palmisano

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Premessa

Il presente *Programma di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi* è redatto in attuazione del D.Lgs. n. 150/2012 e del Decreto interministeriale 22 gennaio 2014 di adozione del Piano d'Azione Nazionale (PAN) per l'uso sostenibile dei prodotti fitosanitari, che prevede a carico delle Regioni l'implementazione, anche nell'ambito dei programmi di rilevazione di cui all'art. 120 del D.Lgs. n. 152/2006, del monitoraggio dei residui dei prodotti fitosanitari nelle acque.
Al fine di redigere il Programma, con Deliberazione della Giunta Regionale n. 896 del 7 giugno 2017, è stato costituito un Gruppo di lavoro composto da referenti dell'Amministrazione Regionale, Sezioni Risorse Idriche, Osservatorio Fitosanitario, Promozione della salute e del benessere, di ARPA Puglia e del CNR IRSA, individuato quale soggetto coordinatore tecnico scientifico.
La Convenzione per l'attuazione della DGR n. 896/2017 è stata sottoscritta in data 5 luglio 2017.
Una delle matrici ambientali più sensibile e vulnerabile ai prodotti fitosanitari è rappresentata dall'ambiente acquatico, sia superficiale che sotterraneo, che può essere contaminato per dilavamento superficiale, drenaggio o percolazione.
Nella normativa ambientale in materia di tutela della risorsa idrica (Direttiva 2000/60/CE, Direttiva 2006/118/CE, D.Lgs. 152/2006 e D.Lgs. 30/2009), i prodotti fitosanitari rappresentano un capitolo rilevante ed i principi in essa contenuti sono coerenti con i principi e le finalità della Direttiva 2009/128/CE sull'uso sostenibile dei pesticidi.
La Direttiva 2009/128/CE del Parlamento Europeo e del Consiglio, con la rettifica pubblicata il 29 giugno 2010, istituisce un quadro per l'azione comunitaria ai fini dell'utilizzo sostenibile dei prodotti fitosanitari, prevedendo, tra l'altro, che gli Stati membri adottino piani d'azione nazionali per definire gli obiettivi ed individuare le misure per la riduzione dell'impatto e dei rischi per la salute umana e l'ambiente conseguenti all'utilizzo dei prodotti fitosanitari e per incoraggiare lo sviluppo e l'introduzione della difesa integrata e di approcci o tecniche alternativi al fine di ridurre la dipendenza dall'utilizzo dei prodotti fitosanitari.
La Direttiva 2009/128/CE è stata recepita a livello nazionale con il Decreto Legislativo del 14 agosto 2012, n. 150, le cui finalità sono:

- ridurre i rischi e gli impatti dei prodotti fitosanitari sulla salute umana, sull'ambiente e sulla biodiversità;
- promuovere l'applicazione della difesa integrata e dell'agricoltura biologica e di altri approcci alternativi o metodi non chimici.
- proteggere e tutelare gli utilizzatori dei prodotti fitosanitari, la popolazione interessata e i consumatori;
- salvaguardare l'ambiente acquatico, le acque potabili;
- conservare la biodiversità e tutelare gli ecosistemi.

In attuazione del richiamato D.Lgs. n. 150/2012, con Decreto interministeriale 22 gennaio 2014, del Ministero delle Politiche Agricole e Forestali, di concerto con il Ministero dell'Ambiente e della Tutela del Territorio e del Mare e con il Ministero della Salute, il

legislatore italiano ha adottato il Piano d'Azione Nazionale (PAN) per l'uso sostenibile dei prodotti fitosanitari.
Il PAN stabilisce gli obiettivi, le misure, i tempi e gli indicatori per la riduzione dei rischi e degli impatti derivanti dall'utilizzo dei prodotti fitosanitari, promuove pratiche di utilizzo maggiormente sostenibili e fornisce indicazioni per ridurre l'impatto dei prodotti fitosanitari nelle aree agricole, nelle aree extra agricole (aree verdi urbane, strade, ferrovie, ecc..) e nelle aree naturali protette. Quale strumento di controllo e gestione estremamente importante ai fini della verifica dell'efficacia e dell'efficienza delle strategie e delle misure attuate per la riduzione dell'impatto e dei rischi derivanti dall'utilizzo dei prodotti fitosanitari, il PAN prevede a carico delle Regioni la programmazione ed implementazione, nell'ambito dei programmi di rilevazione ambientale di cui all'art. 120 del D.Lgs. n. 152/2006, del monitoraggio dei residui dei prodotti fitosanitari nelle acque, tenendo conto degli indirizzi specifici, ed in continua evoluzione, forniti dall'Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA).
In particolare l'ISPRA, con il Manuale e Linee Guida 152/2017 "Monitoraggio nazionale dei pesticidi nelle acque: indicazioni della scelta per le sostanze" (MLG), poi aggiornato con la "Linea guida per la progettazione del monitoraggio di acque, sedimenti e biota" (GdR Fitofarmaci ISPRA, 2018), in fase di pubblicazione, ha fornito gli ultimi indirizzi tecnico-scientifici per la scelta delle sostanze da ricercare, i metodi di campionamento, l'analisi e il controllo di qualità, predisponendo gli indicatori stabiliti dal PAN stesso per la verifica dell'efficacia delle misure di tutela dell'ambiente acquatico. Il MLG, inoltre, tiene conto della normativa per la tutela delle acque, che con la Direttiva Quadro Acque (2000/60/CE, di seguito DQA) e le Direttive figlie, stabilisce i criteri per lo sviluppo delle reti e per l'esecuzione del monitoraggio e fissa standard di qualità ambientale delle sostanze.
Il presente Programma, in linea con le finalità dei richiamati manuali ISPRA, ha come obiettivo la definizione della rete di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei, funzionale al reperimento in tempo utile di informazioni sullo stato delle risorse idriche della Regione Puglia rispetto alla loro eventuale compromissione derivante dall'uso dei fitofarmaci, anche basandosi su informazioni storiche, alla eventuale messa in opera di controlli più efficaci e all'individuazione di eventuali effetti negativi non previsti in fase autorizzativa delle sostanze.
In tal senso l'articolazione del Programma è volta, in linea con la strategia comunitaria e nazionale e con gli indirizzi tecnico–scientifici di ISPRA, alla definizione di un sistema integrato di monitoraggio nelle acque, contestualizzato alle specificità del territorio regionale pugliese che tenga conto delle sostanze effettivamente utilizzate e delle diverse aree territoriali in cui tale uso si concretizza, al fine di orientare gli specifici approfondimenti e rilevazioni.
Aspetto determinate nella formazione del Programma è infatti costituito dalla scelta delle sostanze da monitorare che deve necessariamente considerare tutti gli aspetti che concorrono a determinare la possibilità di contaminazione delle acque e il conseguente rischio per l'uomo e per l'ambiente. In particolare, è necessario tenere conto delle sostanze effettivamente

impiegate, delle quantità utilizzate, delle specifiche caratteristiche che determinano il destino delle sostanze nell'ambiente e delle loro proprietà (eco)tossicologiche.
Il Programma intende, inoltre, promuovere l'integrazione delle attività di monitoraggio dei prodotti fitosanitari nei corpi idrici attualmente in corso nel territorio pugliese, attualizzandone i contenuti anche alla luce delle dinamiche estremamente veloci che interessano il tema in oggetto.

REGIONE PUGLIA
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1. Inquadramento normativo

Dal punto di vista normativo i prodotti fitosanitari (Reg. CE 1107/2009), utilizzati in agricoltura, e i biocidi (Reg. UE 528/2012), impiegati in vari campi di attività (disinfettanti, preservanti, pesticidi per uso non agricolo, ecc.), vengono identificati entrambi come pesticidi in quanto, spesso, i due tipi di prodotti utilizzano gli stessi principi attivi.
Il Regolamento (CE) n. 1107/2009, relativo all'immissione sul mercato dei prodotti fitosanitari, prevede una valutazione di rischio prima della loro immissione sul mercato. In maniera analoga, l'immissione sul mercato e l'uso dei prodotti biocidi è normato dal Regolamento (UE) n. 528/2012.
Ai fini dell'implementazione di una strategia di utilizzo sostenibile dei pesticidi si punta alla minimizzazione dei rischi derivanti dal loro utilizzo, al miglioramento dei controlli sulla distribuzione e sull'impiego, alla riduzione dei livelli di sostanze attive e pericolose oltre che all'incentivazione dell'uso di buone pratiche agricole. A tal fine sono stati emanati la Direttiva 2009/128/CE, che istituisce un quadro per l'azione comunitaria ai fini dell'utilizzo sostenibile dei pesticidi, il Regolamento (CE) n.1185/2009, relativo alle statistiche sui pesticidi e la Direttiva 2009/127/CE, relativa alle macchine per l'applicazione di pesticidi. Nel presente Programma sono, inoltre, stati considerati gli aspetti relativi ai criteri definiti da ISPRA in merito alle sostanze candidate alla sostituzione come da Regolamento di Esecuzione (UE) 2015/408 (Tabella 1).

Tabella 1 - Sostanze candidate alla sostituzione

1-metilciclopropene	dimossistrobina	isoproturon	pendimetalin
aclonifen	diquat	isopyrazam	pirimicarb
amitrolo	epossiconazolo	lambda-cialotrina	procloraz
Bifentrina	esfenvalerate	lenacil	profoxydim
bromadiolone	etoprofos	linuron	propiconazolo
bromuconazolo	etofenprox	lufenurone	propoxycarbazone
carbendazim	etoxazolo	mecoprop	prosulfuron
clorotoluron	famoxadone	metalaxil	quinoxifen
(stereochimica non stabilita)	fenamifos	metam	quizalofop-p
composti del rame	fenbutatin ossido	metconazolo	(variante quizalofop-p-tefurile)
(varianti idrossido di rame,	fipronil	metomil	sulcotrione
ossicloruro di rame, ossido di	fludioxonil	metribuzin	tebuconazolo
rame, poltiglia bordolese e	flufenacet	metsulfuron-metile	tebufenpirad
solfato di rame tribasico)	flumiossazina	molinate	tepraloxydim
ciproconazolo	fluometuron	miclobutanil	thiacloprid
ciprodinil	fluopicolide	nicosulfuron	tri-allato
diclofop	fluquinconazolo	oxadiargil	triasulfuron
difenacum	glufosinato	ossadiazone	triazossido
difenoconazolo	haloxyfop-p	oxamil	warfarin
diflufenican	imazamox	oxifluorfen	ziram
dimetoato	imazosulfuron	paclobutrazol	

Nell'ambito della Direttiva Quadro sulle Acque (DQA) è stato individuato un elenco di sostanze o gruppi di sostanze per le quali è richiesto un intervento prioritario. Queste sostanze sono classificate come sostanze *pericolose prioritarie*. Tali sostanze sono normate dalla Direttiva

2008/105/CE e dalla Direttiva 2013/39/UE che istituisce per le stesse standard di qualità ambientale (SQA) ed introduce i valori di SQA per la matrice biota per quelle sostanze che tendono a bioaccumulare. l loro monitoraggio nell'ambiente e soprattutto nei corpi superficiali è motivato dal fatto che, oltre a poter essere pericolosi per gli organismi viventi, possono migrare e lasciare residui nell'ambiente e nei prodotti agricoli, con un rischio per l'uomo e per gli ecosistemi.

Con riferimento alle acque superficiali, a livello nazionale il D.Lgs. 172/2015, in attuazione della Direttiva 2013/39/UE, modifica il Titolo II del D.Lgs. 152/2006 e le tabelle relative agli SQA: nella tabella 1/A riprende gli standard di qualità ambientale per le sostanze dell'elenco di priorità (sostanze indicate rispettivamente come P-prioritarie e PP-pericolose prioritarie (Tabella 2), e nella tabella 1/B stabilisce standard di qualità ambientale per alcune sostanze non appartenenti all'elenco di priorità, tra cui diversi pesticidi (Tabella 3). Circa la metà di questi composti sono riconducibili alla categoria dei fitofarmaci, molti dei quali, il DDT, l'esaclorobenzene, il lindano, gli insetticidici ciclodienici policlorurati (aldrin, dieldrin, endrin, isodrin) e l'atrazina, sono ormai revocati da tempo, ma i cui effetti sulle acque potrebbero ancora non essere scomparsi.

La Direttiva 2013/39/UE istituisce un elenco di controllo (Watch List - WL) di sostanze da sottoporre a monitoraggio. Sono sostanze che potrebbero rappresentare un rischio significativo per l'ambiente acquatico o attraverso l'ambiente acquatico. . Il monitoraggio di queste sostanze è attualmente in corso e potrà fornire indicazioni utili al fine di una eventuale inclusione nell'elenco delle sostanze prioritarie. La prima Watch List, individuata con Decisione (UE) 2015/495, contiene 16 sostanze di cui 8 pesticidi (Tabella 4).

Tabella 2 - Pesticidi appartenenti all'elenco della tabella 1/A, Allegato I Parte Terza D.Lgs. 152/06, così come modificato dal D.Lgs. n. 172/2015
(ISPRA Report 152/2017)

1) P e PP sono rispettivamente le sostanze prioritarie e pericolose prioritarie

Sostanze	Indicazione di priorità[1]	Sostanze	Indicazione di priorità[1]
Alaclor	P	Pentaclorofenolo	P
Atrazina	P	Simazina	P
Clorfenvinfos	P	Trifluralin	PP
Clorpirifos (Clorpirifos etile)	P	Aclonifen	P
Aldrin, Dieldrin, Endrin, Isodrin		Bifenox	P
DDT totale		Chinossifen	PP
p,p'-DDT		Cibutrina	P
Diuron	P	Cipermetrina	P
Endosulfan	PP	Diclorvos	P
Esaclorobenzene	PP	Dicofol	PP
Esaclorocicloesano (HCH)	PP	Eptacloro ed eptacloro epossido	PP
Isoproturon	P		
Pentaclorobenzene	PP	Terbutrina	P

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Tabella 3 - Pesticidi appartenenti all'elenco della tabella 1/B, Allegato I Parte Terza D.Lgs. 152/06, così come modificato dal D.Lgs. n. 172/2015 (ISPRA Report 152/2017)

Sostanze			
Azinfos-etile	Dimetoato	Mecoprop	Paration-metile
Azinfos-metile	Fenitrotion	Metamidofos	2,4,5-T
Bentazone	Fention	Mevinfos	Terbutilazina
2,4-D	Linuron	Ometoato	(incluso metabolita)
Demeton	Malation	Ossidemeton-metile	**Pesticidi singoli**
3,4-Dicloroanilina	MCPA	Paration	**Pesticidi totali**

Tabella 4 - Pesticidi della Watch List (ISPRA Report 152/2017)

Sostanze	
Methiocarb	
Neonicotinoids:	Imidacloprid
	Thiacloprid
	Thiamethoxam
	Clothianidin
	Acetamiprid
Oxadiazon	
Tri-allate	

La normativa di riferimento per le acque sotterranee è rappresentata dal D.Lgs. 30/2009 aggiornato con DM 6 luglio 2016 e dal D. Lgs. 152/2006 Allegato 1 alla Parte III Parte B.
In linea generale i corpi idrici sotterranei sono classificati in stato chimico buono quando sono rispettati gli standard di qualità e i limiti soglia dei parametri riportati in allegato 3 tabelle 2 e 3 del D. Lgs. 30/2009.
Nella tabella 2 del D. Lgs. 30/2009 è presente il parametro generico "sostanze attive nei pesticidi" con valori standard per singola sostanza (0,1 µg/l) e per sommatoria (0,5 µg/l).
Nella tabella 3 dello stesso decreto, sono presenti alcuni pesticidi appartenenti alla famiglia dei clorurati persistenti con specifici valori soglia, come di seguito riportato.

PESTICIDI			
Aldrin	309-00-2	0,03	
β-esaclorocicloesano	319-85-7	0,1	0,02 (Somma degli esaclorocicloesani)
DDT totale ****	non applicabile	0,1	0,025
p,p'-DDT	50-29-3		0,01
Dieldrin	60-57-1	0,03	
Sommatoria (aldrin, dieldrin, endrin, isodrin)	(309-00-2), (60-57-1), (72-20-8), (465-73-6)		0,01

Il Programma di monitoraggio implementato tiene conto della normativa per la tutela delle acque che con la Direttiva Quadro sulle Acque (WFD 2000/60/CE) e le direttive figlie, individua i criteri per lo sviluppo delle reti e per l'esecuzione del monitoraggio delle stesse.
La scelta delle sostanze da ricercare, pertanto, è basata sia sulle linee guida di ISPRA che considerano tutti gli aspetti che concorrono a determinare la possibilità di contaminazione delle acque e conseguentemente il rischio per l'uomo e per l'ambiente e sia su un approccio innovativo basato sull'effettivo utilizzo del suolo attraverso elaborazioni in ambiente GIS basate su dati provenienti dal progetto *Corine Land Cover*.

2. Obiettivi del programma

Come espressamente previsto dal PAN al punto *C.1 - Monitoraggio delle sostanze attive fitosanitarie nelle acque superficiali e sotterranee*, il monitoraggio dei residui di tali prodotti nelle acque va effettuato allo scopo di **rilevare la presenza e gli eventuali effetti derivanti dall'uso dei prodotti fitosanitari nell'ambiente acquatico**, tenendo conto degli indirizzi specifici forniti dall'ISPRA per quanto riguarda la metodologia di scelta delle sostanze da ricercare prioritariamente, i metodi per il campionamento, l'analisi e il controllo di qualità.

I fitofarmaci sono prodotti chimici utilizzati per il controllo degli insetti, dei funghi o di altri organismi indesiderabili. Attualmente sono presenti sul mercato, oltre 32.000 tipi differenti di fitofarmaci con oltre 1.800 principi attivi diversi, mentre i dati di sintesi riportano che sono circa 400 le sostanze impiegate in agricoltura e nel 2014, in Italia, sono state vendute circa 130.000 tonnellate di prodotti fitosanitari (ISTAT, 2014).

Nonostante le attività di ricerca nel settore siano state orientate alla produzione di principi attivi specifici per le differenti esigenze agronomiche, i prodotti fitosanitari possono generare effetti negativi anche su organismi diversi dal bersaglio diretto della loro azione. L'utilizzo di tali prodotti, che potrebbe comportare contaminazione del suolo da fonti d'inquinamento diffuse ha, pertanto, implicazioni sulla qualità dei prodotti agro – alimentari, sulla qualità delle risorse idriche e, di conseguenza, sulla salute umana. Un uso sempre più razionale di tali sostanze, compatibile con la tutela dell'ambiente e della salute umana è divenuto un'esigenza fondamentale per il raggiungimento del benessere della collettività.

Circa il 70% delle pratiche colturali richiede l'utilizzo di fitofarmaci, che sono comunque sostanze chimiche tossiche e di conseguenza la loro concentrazione nelle acque necessita di un attento monitoraggio. Numerosi studi, alcuni dei quali condotti dalla Regione Puglia, come il progetto "Banca Dati Tossicologica del Suolo e dei prodotti derivati" documentano gli effetti tossicologici di tali sostanze. La potenziale presenza di fitofarmaci nelle acque di falda, può essere talora esaltata in presenza di acquiferi caratterizzati da un grado di vulnerabilità elevato.

Per il controllo e la valutazione di eventuali effetti derivanti dall'utilizzazione dei prodotti fitosanitari sull'ambiente acquatico ed in particolare sugli ambienti vulnerabili, occorre approfondire la conoscenza relativamente alla tipologia e alla quantità dei prodotti fitosanitari immessi localmente nell'ambiente, alle modalità di diffusione e agli effetti sugli organismi viventi.

Gli obiettivi del presente Programma, alla luce delle precedenti implicazioni sull'utilizzo dei fitofarmaci, sono numerose ed importanti:

- identificare i prodotti fitosanitari da monitorare nel comparto idrico regionale in relazione al reale utilizzo sul territorio;
- armonizzare i sistemi di monitoraggio a livello regionale attraverso controlli mirati;
- rilevare la presenza e gli eventuali effetti derivanti dall'uso dei prodotti fitosanitari nell'ambiente acquatico;
- rilevare eventuali interazioni con l'ambiente, non prevedibili in sede di valutazione e immissione in commercio dei prodotti fitosanitari;

- favorire la definizione di un quadro conoscitivo adeguato;
- identificare, quantificare e seguire le evoluzioni spazio–temporali di eventuali fenomeni di inquinamento legati all'utilizzo improprio di prodotti fitosanitari.

Ulteriore obiettivo è quello di completare ed integrare le conoscenze sui rischi connessi con l'utilizzo dei prodotti fitosanitari, nonché quello di organizzare in maniera efficace tutte le informazioni territoriali ed ambientali disponibili, attraverso una stretta cooperazione tra Enti a vario titolo coinvolti. L'attuazione del monitoraggio ed i risultati emersi consentiranno di valutare l'identificazione di aree vulnerabili da prodotti fitosanitari, in conformità all'art.93 del d. Lgs. 152/2006, e di formulare proposte relative all'adozione di misure cautelative e mitigative attraverso attenta valutazione degli impatti sulla risorsa idrica regionale derivanti dall'uso di tali sostanze, attraverso l'elaborazione di indicatori adeguati. Tanto al fine di fornire uno strumento che consenta di intraprendere tempestivamente azioni e strategie finalizzate a:

- minimizzare i pericoli ed i rischi per la salute e l'ambiente derivanti dall'uso dei prodotti fitosanitari;
- migliorare i controlli sull'utilizzo e sugli effetti dell'impiego dei prodotti fitosanitari;
- orientare la riduzione dei livelli di sostanze attive nocive, in particolare sostituendo le più pericolose con alternative più sicure, anche di tipo non chimico;
- promuovere l'uso di tecniche agricole con apporto basso o nullo di prodotti fitosanitari.

3. Analisi del contesto

L'avvio delle attività inerenti la rilevazione della presenza e valutazione di eventuali effetti sull'ambiente acquatico derivanti dall'utilizzazione dei prodotti fitosanitari, prevede la disponibilità di una conoscenza approfondita del territorio, con la finalità di evidenziare la situazione attuale territoriale ed ambientale.
Con la finalità di acquisire informazioni utili a tale scopo, è stata condotta una fase conoscitiva che si è sostanziata nella ricerca bibliografica di materiale documentale comprendente studi, ricerche, elaborati grafici, dati di monitoraggio, etc. La ricerca di elementi ed informazioni disponibili è stata condotta presso la stessa Regione Puglia, l'ARPA Puglia, l'Osservatorio Fitosanitario Regionale oltre che nelle Università ed Istituti di ricerca.
Nell'ambito di tale fase è stata compiuta una rassegna completa dello stato delle conoscenze disponibili già elaborate e si è fatta richiesta dei relativi documenti alle varie Istituzioni in possesso di dati e report.
Lo svolgimento dell'attività è stata mirata ai seguenti obiettivi:

- avviare le fasi di studio partendo da una conoscenza completa dei temi da affrontare in relazione alle variabili territoriali;
- evitare inutili repliche di indagini già effettuate;
- costituire una base di conoscenze, indispensabile per l'individuazione delle principali situazioni di rischio potenziale di inquinamento delle acque da prodotti fitosanitari.

La raccolta di materiale documentale si è estesa anche alla ricerca di cartografie tematiche riguardanti il territorio pugliese. L'acquisizione delle carte tematiche esistenti ha avuto una notevole importanza per la localizzazione delle pressioni antropiche e dei fenomeni naturali sul territorio, concorrendo al completamento del quadro conoscitivo di base. La disponibilità delle carte tematiche, inoltre, è stata di ausilio nella redazione dei livelli tematici resi in formato digitale, cercando di garantire una certa omogeneità e sovrapponibilità delle informazioni cartografiche. Tutte i dati reperiti, qualora possibile, sono state georeferenziati nello stesso sistema di riferimento (WGS 84/UTM zone 33N, EPSG:32633) inventariati, archiviati e gestiti con l'ausilio di sistemi informatici (GIS e database relazionali).
Ai fini della redazione del presente Programma si è fatto riferimento, in via prioritaria, ai seguenti studi e dati:

- Piano di Tutela delle Acque vigente – DCR n. 230 del 20.10.2009 e successivi aggiornamenti – e relativi studi di supporto (vulnerabilità corpi idrici sotterranei, uso del suolo, pressioni, ecc.);
- Programma regionale di Monitoraggio qualitativo dei corpi idrici superficiali (DGR. n. 1045/2016) – dati 2015 e 2016;
- Programma regionale di Monitoraggio qualitativo dei corpi idrici sotterranei (DGR n. 224/2015) – dati 2015 e 2016;
- *Piano Regionale dei Controlli Ufficiali in materia di sicurezza alimentare* - dati di monitoraggio sulle matrici alimentari forniti dal Polo di Specializzazione Alimenti dell'Arpa Puglia per le annualità 2015 - 2016;
- Banca dati tossicologica del suolo e dei prodotti derivati (dati aggiornati al 2001);

- Piano di Assetto Idrogeologico redatto dall'Autorità di Bacino della Puglia (dati aggiornati 2005);
- Carta idrogeomorfologica elaborata dall'Autorità di Bacino della Puglia (dati aggiornati al 2015);
- Piano Paesaggistico Territoriale Regionale (PPTR) della Puglia approvato con DGR n. 176 del 16 febbraio 2015 e s.m.i.;
- Programma Regionale per la Lotta alla Siccità ed alla Desertificazione (Regione Puglia - Assessorato all' Ambiente– 2000);
- Perimetrazione delle Zone Vulnerabili da Nitrati (DGR. n. 1787/2013 e n. 147/2017) e relativo Programma d'Azione (DGR n. 1408/2016);
- Carta d'uso del suolo - Corine Land Cover 2011 (Fonte Regione Puglia-Area Politiche per la mobilità e qualità urbana – Servizio Assetto del Territorio);
- VI Censimento Generale dell'Agricoltura - ISTAT 2010;
- Aree designate per la protezione degli habitat e delle specie, nelle quali mantenere o migliorare lo stato delle acque anificazione, dei corpi idritezione, compresi i siti della rete Natura 2000 istituiti a norma della direttiva 79/409/CEE e 92/43/CEE ree designate per la rvizio Parchi e Tutela della Biodiversitd;
- Relazione sullo stato dell'Ambiente di ARPA Puglia – 2011;
- Ortofoto Regione Puglia 2016 (fonte CISIS-AGEA);
- dati provenienti dalla Fondazione OpenStreetMap;
- dati provenienti dalla BDF agrofarmaci - Ecospi srl, Milano.

Tutti i tematismi sono visualizzabili in ambiente GIS desktop, pertanto non è stato necessario definirne una scala di rappresentazione.

Particolarmente rilevante è stato l'utilizzo delle cartografie tematiche, per la comprensione degli elementi ambientali ed antropici caratterizzati da un elevato grado di vulnerabilità, principalmente legato a:

- localizzazione di particolari situazioni antropiche (es. presenza di serre, di colture intensive impattanti, etc.) e di fenomeni e caratteristiche naturali sul territorio (es. carsismo diffuso, utilizzo delle risorse, aree rete Natura 2000, zone vulnerabili da nitrati, etc.);
- individuazione di situazioni caratterizzate da un'elevata criticità dove le valutazioni ecologiche indicano corpi idrici a rischio;
- gestione di informazioni di tipo territoriale con la possibilità di effettuare elaborazioni sia su componenti geografiche che alfanumeriche (attraverso interpolazioni, *overlay mapping*, etc.);
- disponibilità di informazioni di tipo metrico (posizioni, distanze, dislivelli, etc.) e qualitativo (visione d'insieme del territorio).

3.1 I corpi idrici superficiali e sotterranei pugliesi

In seguito al recepimento nazionale della DQA con il D.Lgs. 152/06 e s.m.i. ed in particolare con il Regolamento emanato con D.M. 16 giugno 2008, n. 131, che modifica gli allegati 1 e 3 della Parte terza del D.Lgs. 152/06, la Regione Puglia ha proceduto alla tipizzazione e caratterizzazione dei corpi idrici superficiali con D.G.R. n. 774/2010 e successivo aggiornamento con D.G.R. n. 2844/2010. I corpi idrici superficiali sono stati caratterizzati al fine di individuare le unità elementari per le quali è possibile definire univocamente ed omogeneamente lo stato di qualità e definire l'obiettivo di qualità ambientale in base all'analisi delle pressioni e degli impatti. I risultati mostrano che corpi simili e contigui fisicamente, per esempio dotati di continuità idraulica, devono essere gestiti in maniera separata se l'impatto delle attività umane comporta situazioni qualitative nettamente differenti.

Il lungo processo di tipizzazione e caratterizzazione ha portato all'individuazione dei corpi idrici regionali, suddivisi nelle quattro categorie "Corsi d'Acqua" (Tabella 5), "Laghi/Invasi" (Tabella 6), "Acque di Transizione" (Tabella 7) e "Acque Marino – Costiere" (Tabella 8), come rappresentate nella
Figura 1.

Tabella 5 – Corpi idrici superficiali pugliesi – Corsi d'Acqua

Corpo idrico	Codice completo
Saccione_12	ITF-I022-12SS3T.1
Foce Saccione	ITF-I022-12SS3T.2
Fortore_12_1	ITF-I015-12SS3T
Fortore_12_2	ITF-I015-12SS4T
Candelaro_12	ITF-R16-08412IN7F
Candelaro_16	ITF-R16-08416IN7F
Candelaro sorg. - confl. Triolo_17	ITF-R16-08417IN7T.1
Candelaro confl. Triolo - confl. Salsola_17	ITF-R16-08417IN7T.2
Candelaro confl. Salsola - confl. Celone_17	ITF-R16-08417IN7T.3
Candelaro confl. Celone - foce	ITF-R16-08417IN7T.4
Candelaro - Canale della Contessa	ITF-R16-08417IN7T.6
Foce Candelaro	ITF-R16-08417IN7T.5
Torrente Triolo	ITF-R16-084-0316IN7T
Salsola ramo nord	ITF-R16-084-0216IN7T.1
Salsola ramo sud	ITF-R16-084-0216IN7T.2
Salsola confl. Candelaro	ITF-R16-084-0216IN7T.3
Fiume Celone_18	ITF-R16-084-0118EF7T
Fiume Celone_16	ITF-R16-084-0116EF7F
Cervaro_18	ITF-R16-08518IN7F
Cervaro_16_1	ITF-R16-08516IN7T.1
Cervaro_16_2	ITF-R16-08516IN7T.2
Cervaro foce	ITF-R16-08516IN7T.3
Carapelle_18	ITF-R16-08618IN7F
Carapelle_18_Carapellotto	ITF-R16-08616IN7T.1

Corpo idrico	Codice completo
Confl. Carapellotto - foce Carapelle	ITF-R16-08616IN7T.2
Foce Carapelle	ITF-R16-08616IN7T.3
Ofanto - confl. Locone	ITF-I020-R16-08816IN7T.1
Confl. Locone - Confl. Foce Ofanto	ITF-I020-R16-08816IN7T.2
Foce Ofanto	ITF-I020-R16-08816IN7T.3
Ofanto_18 (1)	ITF-I020-R16-08818IN7F
Torrente Locone (2)	ITF-I020-R16-088-0116IN7T
Bradano_reg.	ITF-I01216IN7T
Bradano_confl. asta princ. (3)	ITF-I01216SS3T
Bradano_asta princ. (3)	ITF-I01216SS4T
Fiume Grande	ITF-R16-15017EF7T
Canale Reale	ITF-R16-14417EF7T
Torrente Asso	ITF-R16-18217EF7T
Tara	ITF-R16-19317SR6T
Lenne	ITF-R16-19516EF7T
Lato	ITF-R16-19616EF7T
Galaso	ITF-R16-19716EF7T

(1) Monitorato dal 2016
(2) Escluso dal monitoraggio a causa dei frequenti e protratti periodi di alveo secco (D.G.R. n. 1255/2012)
(3) Monitorato da altra regione

Tabella 6 – Corpi idrici superficiali pugliesi – Laghi/Invasi

Corpo idrico	Codice completo
Occhito (Fortore)	ITI-I015-R16-01ME-4
Torre Bianca / Capaccio (Celone)	ITI-R16-084-01ME-2
Marana Capacciotti	ITI-I020-R16-01ME-4
Locone (Monte Melillo)	ITI-I020-R16-02ME-4
Serra del Corvo (Basentello)	ITI-I012-R16-03ME-2
Cillarese	ITI-R16-148-01ME-1

Tabella 7 – Corpi idrici superficiali pugliesi – Acque di transizione

Corpo idrico	Codice completo
Laguna di Lesina - da sponda occidentale a località La Punta	ITR16-004AT08_1
Laguna di Lesina - da La Punta a Fiume Lauro/Foce Schiapparo	ITR16-007AT08_2
Laguna di Lesina - da Fiume Lauro/Foce Schiapparo a sponda orientale	ITR16-014AT08_3
Lago di Varano	ITR16-018AT08_4
Vasche Evaporanti (Lago Salpi)	ITR16-087AT10_1
Torre Guaceto	ITR16-143AT02_1
Punta della Contessa	ITR16-151AT05_1
Cesine	ITR16-162AT02_2
Alimini Grande	ITR16-185AT03_1
Baia di Porto Cesareo	ITR16-183AT04_1
Mar Piccolo - Primo seno	ITR16-191AT09_1
Mar Piccolo - Secondo seno	ITR16-191AT09_2

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Tabella 8 – Corpi idrici superficiali pugliesi – Acque Marino Costiere

Corpo idrico	Codice completo
Isole Tremiti	ITI022-R16-227ACA3.s3_1
Chieuti - Foce Fortore	ITI015-R16-226ACB3.s1_1
Foce Fortore - Foce Schiapparo	ITR16-001ACE3.s1.2_1
Foce Schiapparo - Foce Capoiale	ITR16-014ACA3.s1_1
Foce Capoiale - Foce Varano	ITR16-024ACE3.s1.2_2
Foce Varano - Peschici	ITR16-027ACE3.s1.2_3
Peschici - Vieste	ITR16-042ACA3.s1_2
Vieste - Mattinata	ITR16-054ACA3.s1_3
Mattinata - Manfredonia	ITR16-081ACA3.s1_4
Manfredonia - Torrente Cervaro	ITR16-084ACE2.s1_1
Torrente Cervaro - Foce Carapelle	ITR16-087ACE2.s1_2
Foce Carapelle - Foce Aloisa	ITR16-087ACE2.s1_3
Foce Aloisa - Margherita di Savoia	ITR16-087ACE2.s1_4
Margherita di Savoia - Barletta	ITI020-R16-088ACE2.s1_5
Barletta - Bisceglie	ITR16-090ACB2.s3_1
Bisceglie - Molfetta	ITR16-097ACB2.s3_2
Molfetta - Bari	ITR16-101ACB3.s3_1
Bari - S. Vito (Polignano)	ITR16-108ACB3.s3_2
S. Vito (Polignano) - Monopoli	ITR16-118ACB3.s3_3
Monopoli - Torre Canne	ITR16-125ACB3.s3_4
Torre Canne-Limite nord AMP Torre Guaceto	ITR16-133ACB3.s3_5
Area Marina Protetta Torre Guaceto	ITR16-143ACB3.s3_6
Limite sud AMP Torre Guaceto-Brindisi	ITR16-147ACB3.s3_7
Brindisi - Cerano	ITR16-151ACB3.s3_8
Cerano - Le Cesine	ITR16-160ACB3.s3_9
Le Cesine - Alimini	ITR16-164ACB3.s3_10
Alimini - Otranto	ITR16-165ACB3.s3_11
Otranto - S. Maria di Leuca	ITR16-201ACA3.s3_2
S. Maria di Leuca - Torre S. Gregorio	ITR16-176ACB3.s3_12
Torre S. Gregorio - Ugento	ITR16-177ACE3.s1.1_1
Ugento - Limite sud AMP Porto Cesareo	ITR16-182ACB3.s3_13
Limite sud AMP Porto Cesareo - Torre Colimena	ITR16-184ACB3.s3_14
Torre Colimena - Torre dell'Ovo	ITR16-185ACF3.s3.1_1
Torre dell'Ovo - Capo S. Vito	ITR16-187ACB3.s3_15
Capo S. Vito - Punta Rondinella	ITR16-188ACB3.s3_16
Punta Rondinella - Foce Fiume Tara	ITR16-193ACF3.s3.2_1
Foce Fiume Tara - Chiatona	ITR16-194ACF3.s3.2_2
Chiatona - Foce Lato	ITR16-195ACE3.s1.1_2
Foce Lato - Foce Bradano	ITR16-196ACE3.s1.1_3

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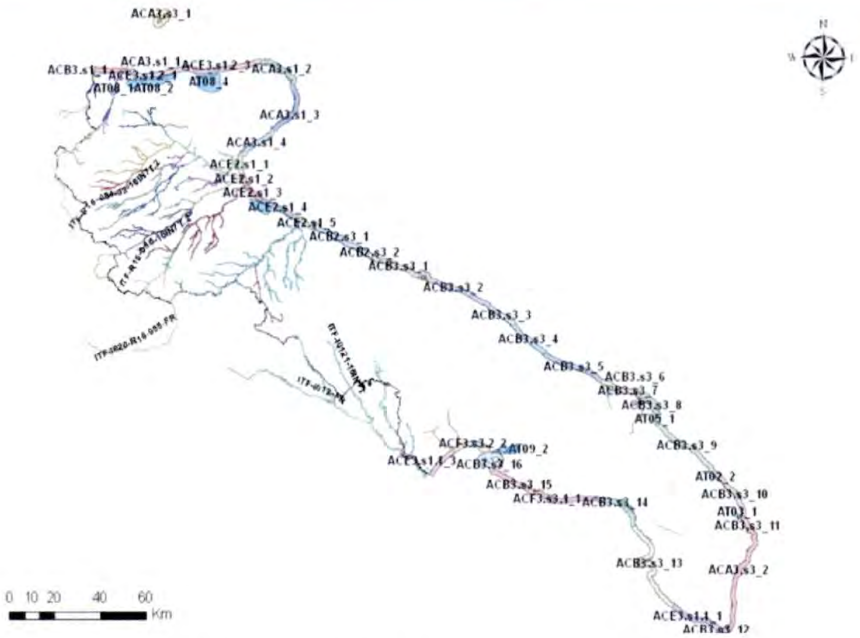

Figura 1 - Rappresentazione dei corpi idrici superficiali pugliesi

Successivamente al processo di caratterizzazione, è stata avviata l' attività di monitoraggio in attuazione della Direttiva Quadro delle Acque, che ha portato, a conclusione del primo anno di monitoraggio di sorveglianza, alla classificazione di rischio dei corpi idrici superficiali, approvata con DGR n. 3060 del 27 Dicembre 2012 e riportata nelle tabelle seguenti.

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Tabella 9 - Classificazione di rischio dei corpi idrici superficiali pugliesi – Corsi d'Acqua

Corpo idrico	Codice	Monitoraggio sorveglianza
		Classe di rischio
Saccione_12	ITF-I022-12SS3T.1	a rischio
Foce Saccione	ITF-I022-12SS3T.2	a rischio
Fortore_12_1	ITF-I015-12SS3T	a rischio
Fortore_12_2	ITF-I015-12SS4T	a rischio
Candelaro_12	ITF-R16-08412IN7F	a rischio
Candelaro_16	ITF-R16-08416IN7F	a rischio
Candelaro sorg-confl.Triolo_17	ITF-R16-08417IN7T.1	a rischio
Candelaro confl.Triolo confl.Salsola_17	ITF-R16-08417IN7T.2	a rischio
Candelaro confl.Salsola confl.Celone _17	ITF-R16-08417IN7T.3	a rischio
Candelaro confl.Celone foce	ITF-R16-08417IN7T.4	a rischio
Candelaro-Canale della Contessa	ITF-R16-08417IN7T.6	a rischio
Foce Candelaro	ITF-R16-08417IN7T.5	a rischio
Torrente Triolo	ITF-R16-084-0316IN7T	a rischio
Salsola ramo nord	ITF-R16-084-0216IN7T.1	a rischio
Salsola ramo sud	ITF-R16-084-0216IN7T.2	a rischio
Salsola confl.Candelato	ITF-R16-084-0216IN7T.3	a rischio
Fume Celone_16	ITF-R16-084-0116EF7F	a rischio
Fume Celone_18	ITF-R16-084-0118EF7T	a rischio
Cervaro_18	ITF-R16-08518IN7F	a rischio
Cervaro_16_1	ITF-R16-08516IN7T.1	a rischio
Cervaro_16_2	ITF-R16-08516IN7T.2	a rischio
Cervaro foce	ITF-R16-08516IN7T.3	a rischio
Carapelle_18	ITF-R16-08618IN7F	a rischio
Carapelle_18_Carapellotto	ITF-R16-08616IN7T.1	a rischio
confl. Carapellotto_foce Carapelle	ITF-R16-08616IN7T.2	a rischio
Foce Carapelle	ITF-R16-08616IN7T.3	non a rischio
Ofanto-confl. Locone	ITF-I020-R16-08816IN7T.1	a rischio
confl. Locone - confl. Foce Ofanto	ITF-I020-R16-08816IN7T.2	a rischio
Foce Ofanto	ITF-I020-R16-08816IN7T.3	a rischio
Torrente Locone	ITF-I020-R16-088-0116IN7T	a rischio
Bradano_reg	ITF-I01216IN7T	a rischio
Torrente Asso	ITF-R16-18217EF7T	a rischio
F. Grande	ITF-R16-15017EF7T	a rischio
C. Reale	ITF-R16-14417EF7T	a rischio
Tara	ITF-R16-19317SR6T	a rischio
Lenne	ITF-R16-19516EF7T	a rischio
Lato	ITF-R16-19616EF7T	a rischio
Galaso	ITF-R16-19716EF7T	a rischio

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Tabella 10 - Classificazione di rischio dei corpi idrici superficiali pugliesi – Laghi/Invasi

Corpo idrico	Codice	Monitoraggio sorveglianza
		Classe di rischio
Occhito (Fortore)	ITI-I015-R16-01ME-4	non a rischio
Torre Bianca/Capaccio	ITI-R16-084-01ME-2	non a rischio
Marana Capacciotti	ITI-I020-R16-01ME-4	non a rischio
Locone (Monte Melillo)	ITI-I020-R16-02ME-4	a rischio
Serra del Corvo (Basentello)	ITI-I012-R16-03ME-2	a rischio
Cillarese	ITI-R16-148-01ME-1	a rischio

Tabella 11 - Classificazione di rischio dei corpi idrici superficiali pugliesi – Acque di Transizione

Corpo idrico	Codice	Monitoraggio sorveglianza
		Classe di rischio
Cesine	ITR16-162AT02_2	a rischio
Torre Guaceto	ITR16-143AT02_1	a rischio
Alimini Grande	ITR16-185AT03_1	a rischio
Baia di Porto Cesareo	ITR16-183AT04_1	a rischio
Punta della Contessa	ITR16-151AT05_1	a rischio
Laguna di Lesina - da sponda occidentale a località La Punta	ITR16-004AT08_1	a rischio
Laguna di Lesina - da La Punta a Fiume Lauro/Foce Schiapparo	ITR16-007AT08_2	a rischio
Laguna di Lesina - da Fiume Lauro/Foce Schiapparo a sponda orientale	ITR16-014AT08_3	a rischio
Lago di Varano	ITR16-018AT08_4	a rischio
Mar Piccolo - Primo Seno	ITR16-191AT09_1	a rischio
Mar Piccolo - Secondo Seno	ITR16-191AT09_2	a rischio
Vasche evaporanti (Lago Salpi)	ITR16-087AT10_1	a rischio

Tabella 12 - Classificazione di rischio dei corpi idrici superficiali pugliesi – Acque Marino Costiere

Corpo idrico	Codice	Monitoraggio sorveglianza
		Classe di rischio
Isole Tremiti	ITI022-R16-227ACA3.s3_1	a rischio
Chieuti-Foce Fortore	ITI015-R16-226ACB3.s1_1	non a rischio
Foce Fortore-Foce Schiapparo	ITR16-001ACE3.s1.2_1	non a rischio
Foce Schiapparo-Foce Capoiale	ITR16-014ACA3.s1_1	a rischio
Foce Capoiale-Foce Varano	ITR16-024ACE3.s1.2_2	a rischio
Foce Varano-Peschici	ITR16-027ACE3.s1.2_3	a rischio
Peschici-Vieste	ITR16-042ACA3.s1_2	a rischio

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Corpo idrico	Codice	Monitoraggio sorveglianza Classe di rischio
Vieste-Mattinata	ITR16-054ACA3.s1_3	a rischio
Mattinata-Manfredonia	ITR16-081ACA3.s1_4	a rischio
Manfredonia-Torrente Cervaro	ITR16-084ACE2.s1_1	a rischio
Torrente Cervaro-Foce Carapelle	ITR16-087 ACE2.s1_2	a rischio
Foce Carapelle-Foce Aloisa	ITR16-087ACE2.s1_3	a rischio
Foce Aloisa-Margherita di Savoia	ITR16-087ACE2.s1_4	a rischio
Margherita di Savoia-Barletta	ITI020-R16-088ACE2.s1_5	a rischio
Barletta-Bisceglie	ITR16-090ACB2.s3_1	a rischio
Bisceglie-Molfetta	ITR16-097ACB2.s3_2	a rischio
Molfetta-Bari	ITR16-101ACB3.s3_1	a rischio
Bari-S. Vito (Polignano)	ITR16-108ACB3.s3_2	a rischio
S. Vito (Polignano)-Monopoli	ITR16-118ACB3.s3_3	a rischio
Monopoli-Torre Canne	ITR16-125ACB3.s3_4	a rischio
Torre Canne-Limite nord AMP Torre Guaceto	ITR16-133ACB3.s3_5	a rischio
Area Marina Protetta Torre Guaceto	ITR16-143ACB3.s3_6	a rischio
Limite sud AMP Torre Guaceto-Brindisi	ITR16-147ACB3.s3_7	a rischio
Brindisi-Cerano	ITR16-151ACB3.s3_8	non a rischio
Cerano-Le Cesine	ITR16-160ACB3.s3_9	a rischio
Le Cesine-Alimini	ITR16-164ACB3.s3_10	a rischio
Alimini-Otranto	ITR16-165ACB3.s3_11	a rischio
Otranto-S. Maria di Leuca	ITR16-201ACA3.s3_2	non a rischio
S. Maria di Leuca-Torre S. Gregorio	ITR16-176ACB3.s3_12	non a rischio
Torre S. Gregorio-Ugento	ITR16-177ACE3.s1.1_1	non a rischio
Ugento-Limite sud AMP Porto Cesareo	ITR16-182ACB3.s3_13	non a rischio
Limite sud AMP Porto Cesareo-Torre Colimena	ITR16-184ACB3.s3_14	non a rischio
Torre Colimena-Torre dell'Ovo	ITR16-185ACF3.s3.1_1	a rischio
Torre dell'Ovo-Capo S. Vito	ITR16-187ACB3.s3_15	a rischio
Capo S. Vito-Punta Rondinella	ITR16-188ACB3.s3_16	a rischio
Punta Rondinella-Foce Fiume Tara	ITR16-193ACF3.s3.2_1	a rischio
Foce Fiume Tara-Chiatona	ITR16-194ACF3.s3.2_2	a rischio
Chiatona-Foce Lato	ITR16-195ACE3.s1.1_2	a rischio
Foce Lato-Bradano	ITR16-196ACE3.s1.1_3	a rischio

Con riferimento alle acque sotterranee, la Direttiva 2006/118/CE (*Groundwater Daughter Directive*, GDD), che ha istituito un quadro per l'azione comunitaria in materia di acque sotterranee, è stata recepita in Italia con il Decreto Legislativo n. 30 del 16 marzo 2009 che modifica gli allegati 1 e 3 alla Parte Terza del D.Lgs. 152/06, stabilendo i criteri omogenei per la caratterizzazione dei corpi idrici sotterranei.
I corpi idrici sotterranei sono definiti dal D.Lgs. 30/2009 come " un volume distinto di acque sotterranee contenuto da uno o più acquiferi caratterizzato da uno stato ambientale qualitativo e quantitativo omogeneo, tale da poterne valutare attraverso un numero significativo di misure effettuate lo stato dei caratteri quali-quantitativi e loro eventuali trend.

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Nell'ambito del Piano di Tutela delle Acque, approvato con D.C.R. n. 230 del 20.10.2009, sono state utilizzate, quali fonti informative ai fini di una prima individuazione e suddivisione degli acquiferi pugliesi, i modelli del bilancio idrogeologico (bilancio di massa) e le carte di vulnerabilità (a diverso orientamento tematico) degli acquiferi.
I risultati hanno permesso di individuare:

- una prima suddivisione degli acquiferi pugliesi in relazione al tipo di permeabilità (fessurazione e/o carsismo e acquiferi permeabili per porosità);
- i corpi idrici sotterranei ritenuti significativi (Allegato 1 alla Parte Terza del D.Lgs.152/06 "Monitoraggio e classificazione delle acque in funzione degli obiettivi di qualità ambientale");
- la vulnerabilità intrinseca degli acquiferi conformemente ai criteri e agli indirizzi previsti dall'allegato 7 alla Parte Terza del D.lgs. 152/06.

Successivamente la Regione Puglia con D.G.R. n. 1786 del 01.10.2013 ha identificato e caratterizzato i corpi idrici sotterranei in adempimento al D.Lgs. 30/2009, quale attività di aggiornamento del PTA. I corpi idrici sotterranei caratterizzati sono rappresentati in Figura 2 e schematizzati in Tabella 13. Nell'ambito della stessa attività è stata effettuata l'analisi di rischio di non raggiungimento del buono stato, riportata in Tabella 14.

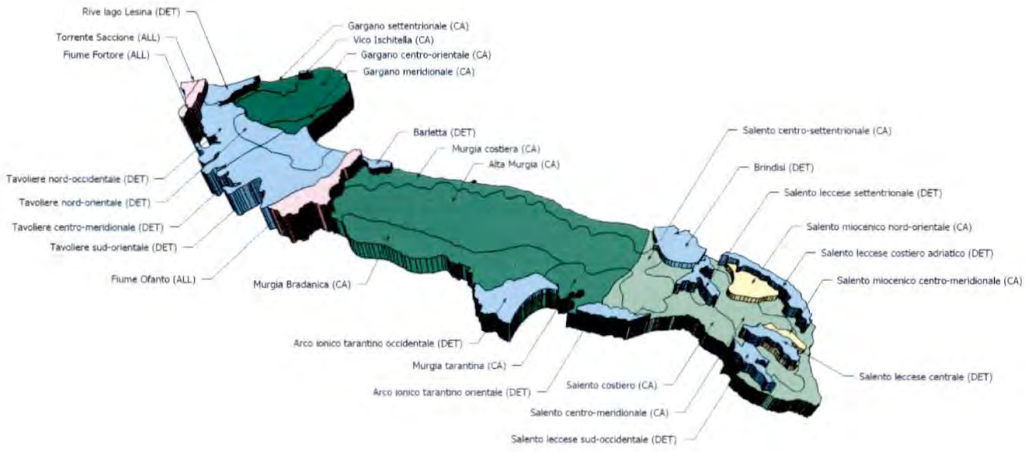

Figura 2 - Rappresentazione dei Corpi Idrici Sotterranei della Puglia

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Tabella 13 - Identificazione dei corpi idrici sotterranei della Puglia

Tipo		Complesso Idrogeologico	Cod. Acq.	Nome Acquifero	Cod.C.I.	Corpi idrici
CA	1	Gargano	1-1	Falda carsica del Gargano	1-1-1 1-1-2 1-1-3	Gargano centro-orientale Gargano meridionale Gargano settentrionale
			1-2	Falda sospesa di Vico -Ischitella	1-2-1	Falda sospesa di Vico Ischitella
	2	Murge e Salento	2-1	Falda carsica delle Murge	2-1-1 2-1-2 2-1-3 2-1-4	Murgia costiera Alta Murgia Murgia bradanica Murgia tarantina
			2-2	Falda Carsica del Salento	2-2-1 2-2-2 2-2-3	Salento costiero Salento centro-settentrionale Salento centro-meridionale
	3	Acquiferi Miocenici	3-1	Falda miocenica del Salento centro-orientale	3-1-1	Salento miocenico centro-orientale
			3-2	Falda miocenica delSalento centro-meridionale	3-2-1	Salento miocenico centro-meridionale
DET	4	Tavoliere	4-1	Falda porosa superficiale delTavoliere	4-1-1 4-1-2 4-1-3 4-1-4 4-1-5	Rive del Lago di Lesina Tavoliere nord-occidentale Tavoliere nord-orientale Tavoliere centro-m eridionale Tavoliere sud-orientale
			4-2	Falda detritica di Barletta	4-2-1	Barletta
	5	Arco Ionico	5-1	Falda porosa superficiale dell'Arco Ionico-Tarantino occidentale	5-1-1	Arco Ionico-tarantino occidentale
			5-2	Falda porosa superficiale dell'Arco Ionico-Tarantino orientale	5-2-1	Arco Ionico-tarantino orientale
	6	Piana di Brindisi	6-1	Falda detritica della Piana Brindisina	6-1-1	Piana brindisina
	7	Serre Salentine	7-1	Acquifero dell'area leccese settentrionale	7-1-1	Salento leccese settentrionale
			7-2	Acquifero dell'area leccese costiera adriatica	7-2-1	Salento leccese costiero Adriatico
			7-3	Acquifero dell'area leccese centro	7-3-1	Salento leccese centrale

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Tipo		Complesso Idrogeologico	Cod. Acq.	Nome Acquifero	Cod.C.I.	Corpi idrici
				Salento		
			7-4	Acquifero dell'area leccese sud-occidentale	7-4-1	Salento leccese sud-occidentale
ALL	8	Torrente Saccione	8-1	Falda alluvionale del T.Saccione	8-1-1	T.Saccione
	9	Fiume Fortore	9-1	Falda alluvionale del F.Fortore	9-1-1	F.Fortore
	10	Fiume Ofanto	10-1	Falda alluvionale del F.Ofanto	10-1-1	F.Ofanto

Tabella 14 - Classificazione di rischio dei corpi idrici sotterranei della puglia

Cod.C.I.	Corpi idrici	Rischio
1-1-1	Gargano centro-orientale	A rischio
1-1-2	Gargano meridionale	A rischio
1-1-3	Gargano settentrionale	A rischio
1-2-1	Falda sospesa di Vico-Ischitela	Probabilmente a rischio
2-1-1	Murgia costiera	A rischio
2-1-2	Alta Murgia	Non a rischio
2-1-3	Murgia bradanica	Non a rischio
2-1-4	Murgia tarantina	A rischio
2-2-1	Salento costiero	A rischio
2-2-2	Salento centro-settentrionale	A rischio
2-2-3	Salento centro-meridionale	A rischio
3-1-1	Salento miocenico centro-orientale	A rischio
3-2-1	Salento miocenico	A rischio
4-1-1	Rive del Lago di Lesina	A rischio
4-1-2	Tavoliere nord-occidentale	A rischio
4-1-3	Tavoliere nord-orientale	A rischio
4-1-4	Tavoliere centro-meridionale	A rischio
4-1-5	Tavoliere sud-orientale	A rischio
4-2-1	Barletta	Probabilmente a rischio
5-1-1	Arco Ionico-tarantino ocidentale	A rischio
5-2-1	Arco Ionico-tarantino orientale	Probabilmente a rischio
6-1-1	Piana brindisina	Probabilmente a rischio
7-1-1	Salento leccese settentrionale	Probabilmente a rischio
7-2-1	Salento leccese costieroAdriatico	A rischio
7-3-1	Salento leccese centrale	Probabilmente a rischio
7-4-1	Salento leccese sud-occidentale	Probabilmente a rischio
8-1-1	T.Saccione	A rischio
9-1-1	F.Fortore	A rischio
10-1-1	F.Ofanto	A rischio

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3.2 *Il monitoraggio dei corpi idrici pugliesi e gli esiti del biennio 2015-2016*

A seguito dei processi di caratterizzazione dei corpi idrici superficiali e sotterranei, la Regione Puglia ha avviato le attività di monitoraggio al fine di definire gli stati di qualità degli stessi, in attuazione della Direttiva Quadro Acque 2000/60/CE e della Direttiva 2006/118/CE sulla protezione delle acque sotterranee dall'inquinamento e dal deterioramento.
Il primo ciclo di Monitoraggio qualitativo dei Corpi Idrici Superficiali, attuato da Arpa Puglia, ha portato alla classificazione triennale dello stato di qualità dei corpi idrici con D.G.R. n. 1952 del 3.11.2015.
Il nuovo programma di monitoraggio approvato con D.G.R. n. 1045/2016 ha avuto naturale avvio nel 2016 e proseguirà per tutto il 2018.
Allo stato attuale, il monitoraggio dei C.I.S. pugliesi è articolato in rete di monitoraggio di sorveglianza e rete di monitoraggio operativo, in conformità a quanto disposto dal D.Lgs. 152/2006, come dettagliato per tipologia di corpi idrici, in Tabella 15.

Tabella 15 - Rete di monitoraggio esistente dei corpi idrici superficiali della Regione Puglia

	Monitoraggio di Sorveglianza		Monitoraggio Operativo	
	Corpi idrici superficiali	Siti di monitoraggio	Corpi idrici superficiali	Siti di monitoraggio
Corsi d'acqua/Fiumi	38	38	35	35
Laghi/Invasi	6	6	3	3
Acque Transizione	12	15	12	15
Acque Marino-Costiere	39	84	27	58
Totale	95	143	77	111

A ciò, si aggiunge la rete di monitoraggio per le acque a specifica destinazione composta da un numero totale di **48 siti**, attualmente così ripartiti:
- Acque superficiali destinate alla produzione di acqua potabile (cod. AP) = 2;
- Acque dolci superficiali idonee alla vita dei pesci salmonicoli e ciprinicoli (cod. VP) = 20;
- Acque destinate alla vita dei molluschi (cod. VM) = 26.

Relativamente ai corpi idrici sotterranei è attualmente in corso il monitoraggio quali – quantitativo sulla base del "Progetto Maggiore", approvato con deliberazione di giunta regionale n. 224 del 20 febbraio 2015 e la cui esecuzione è stata affidata per gli aspetti qualitativi all'Arpa Puglia.
La rete di monitoraggio è costituita da una rete chimica (a sua volta divisa in rete di sorveglianza e rete operativa), una rete quantitativa e tre sottoreti integrative, come di seguito schematizzato:

Tabella 16 - Rete di monitoraggio esistente dei corpi idrici sotterranei della Regione Puglia

	Rete Chimica		Rete Quantitativa	Reti integrative		
	Sorveglianza	Operativo		Salinità	ZVN	Fitofarmaci
n° stazioni	267	216	244	114	118	56

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Per informazioni di dettaglio su organizzazione delle Reti e relativi esiti si rimanda agli specifici documenti di riferimento.
Per gli scopi del presente lavoro sono stati considerati gli esiti di tali monitoraggi con riferimento ai residui dei prodotti fitosanitari rilevati nel biennio 2015-2016 (2015 - Tabella 17 e Tabella 18; 2016 - Tabella 19 e Tabella 20).
Le sostanze per le quali nelle ultime due annualità di monitoraggio sia stata riscontrata, in una determinata stazione, anche la sola presenza nelle acque (vale a dire per le quali sia stato misurato un valore superiore al limite di quantificazione, anche se inferiore agli standard di qualità definiti per legge) sono state incluse nell'elenco dei fitofarmaci da monitorare.

Tabella 17 – Sostanze per le quali è stata riscontrata la presenza per il 2015 nei corpi idrici superficiali

CODICE_STAZIONE	CORPO_IDRICO	SOSTANZE
AT_PC01	Baia di Porto Cesareo	ISOPROTURON
MC_FC01	Manfredonia-Torrente Cervaro	TRIFLURALIN

Tabella 18 – Sostanze per le quali è stata riscontrata la presenza per il 2015 nei corpi idrici sotterranei

CODICE_STAZIONE	CORPO_IDRICO	SOSTANZE
PN001119	Salento centro-meridionale	DIURON
PN001135	Salento centro-meridionale	DDD pp, DDT pp, SIMAZINA
PN001192	Salento costiero	DDD op, DDE pp
PN201000	Alta Murgia	DIURON, SIMAZINA
PN201076	Arco Ionico-tarantino occidentale	ATRAZINA DESETIL
PN201086	Arco Ionico-tarantino occidentale	DDE op
PN401022	Barletta	DIURON

Tabella 19 – Sostanze per le quali è stata riscontrata la presenza per il 2016 nei corpi idrici superficiali

CODICE_STAZIONE	CORPO_IDRICO	SOSTANZE
CA_AS01	Torrente Asso	CLORPIRIFOS, DIURON, ISOPROTURON
CA_CE02	Cervaro_16_1	CLORPIRIFOS
CA_CE03	Cervaro_16_2	DDT pp, CLORPIRIFOS
CA_CE04	Cervaro foce	CLORPIRIFOS
CA_CL01	Fiume Celone_18	CLORPIRIFOS
CA_CL02	Fiume Celone_16	CLORFENVINFOS, CLORPIRIFOS, HCH delta
CA_CR03	confl. Carapellotto_foce Carapelle	CLORPIRIFOS, DIELDRIN, HCH alfa
CA_CR04	Foce Carapelle	CLORPIRIFOS
CA_FF02	Fortore_12_1	CLORPIRIFOS
CA_FO02	confl. Locone - confl. Foce Ofanto	CLORPIRIFOS
CA_FO03	Foce Ofanto	CLORPIRIFOS
CA_GA01	Galaso	ALDRIN, DIELDRIN
CA_SA01	Salsola ramo nord	CLORPIRIFOS
CA_SA02	Salsola ramo sud	CLORPIRIFOS
CA_SA03	Salsola confl. Candelaro	CLORPIRIFOS, HCH delta
CA_TA01	Tara	DIELDRIN
CA_TC01	Candelaro_12	CLORPIRIFOS
CA_TC02	Candelaro_16	CLORPIRIFOS

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CA_TC03	Candelaro sorg. -confl. Triolo_17	CLORPIRIFOS, HCH delta
CA_TC04	Candelaro confl. Triolo-confl. Salsola_17	CLORIPIRIFOS
CA_TC05	Candelaro confl. Salsola - confl. Celone_17	CLORIPIRIFOS
CA_TC06	Candelaro confl. Celone - foce	CLORIPIRIFOS
CA_TC07	Canale della Contessa	CLORIPIRIFOS
CA_TC08	Foce Candelaro	CLORIPIRIFOS
CA_TS01	Saccione_12	CLORIPIRIFOS
CA_TS02	Foce Saccione	CLORIPIRIFOS
CA_TT01	Torrente Triolo	CLORPIRIFOS, HCH delta
LA_CA01	Marana Capacciotti	ATRAZINA, CLORPIRIFOS
LA_CE01	Torre Bianca/Capaccio (Celone)	ATRAZINA, CLORPIRIFOS
LA_OC01	Occhito (Fortore)	ATRAZINA, CLORPIRIFOS
MC_CA01	Foce Schiapparo-Foce Capoiale	ATRAZINA
MC_CB01	Brindisi-Cerano	DIURON
MC_CP01	Torre Columena-Torre dell'Ovo	ALDRIN
MC_CR01	Torrente Cervaro-Foce Carapelle	ATRAZINA
MC_FP01	Foce Fiume Tara-Chiatona	ALDRIN
MC_FV01	Foce Capoiale-Foce Varano	ATRAZINA
MC_MA01	Bari-S. Vito (Polignano)	HCH delta
MC_MI01	Vieste-Mattinata	ATRAZINA
MC_MN01	Mattinata-Manfredonia	ATRAZINA
MC_MT01	Mattinata-Manfredonia	ATRAZINA
MC_PE01	Foce Varano-Peschici	ATRAZINA
MC_SC01	Cerano-Le Cesine	NAFTALENE
MC_SV01	Capo S. Vito-Punta Rondinella	ALDRIN
MC_TR01	Isole Tremiti	ATRAZINA, SIMAZINA
MC_VI01	Peschici-Vieste	ATRAZINA
MC_FF01	Chieuti-Foce Fortore	ATRAZINA, SIMAZINA
MC_FS01	Foce Fortore-Foce Schiapparo	ATRAZINA

Tabella 20 - Sostanze per le quali è stata riscontrata la presenza per il 2016 nei corpi idrici sotterranei

CODICE_STAZIONE	CORPO_IDRICO	SOSTANZE
ex PN401010	Salento leccese settentrionale	ALDRIN, DIELDRIN, ENDRIN
ex PN401015	Salento leccese sud-occidentale	ALDRIN, ENDOSULFAN alfa
ex PN401016	Salento leccese sud-occidentale	ALDRIN
ex PN401017	Salento leccese sud-occidentale	DIELDRIN
PN001003	Alta Murgia	ALDRIN, DIELDRIN, DIURON, ENDRIN, SIMAZINA
PN001135	Salento centro-meridionale	SIMAZINA
PN001138	Salento centro-meridionale	ALDRIN, CIANAZINA, DIELDRIN, SIMAZINA
PN001144	Salento centro-meridionale	ALDRIN
PN001160	Murgia bradanica	ALDRIN, DIELDRIN
PN001192	Salento costiero	ALDRIN, DDD pp, DDT pp, DIELDRIN
PN201017	Rive del Lago di Lesina	METOLACLOR
PN201028	Tavoliere sud-orientale	DIELDRIN
PN201039	Tavoliere centro-meridionale	DDE pp, DDT pp
PN201086	Arco Ionico-tarantino occidentale	DIELDRIN
PN401005	Piana brindisina	DIELDRIN
PN401007	Arco Ionico-tarantino orientale	DIELDRIN
PN401008	Arco Ionico-tarantino orientale	DIELDRIN
PN401009	Arco Ionico-tarantino orientale	ALDRIN, DIELDRIN
PN401011	Salento leccese settentrionale	ALDRIN
PN401018	Salento leccese centrale	ALDRIN, DIELDRIN

3.3 *Il controllo dei residui di prodotti fitosanitari negli alimenti di origine vegetale*

Per avere un quadro conoscitivo completo del possibile stato di contaminazione dei corpi idrici superficiali e sotterranei della Regione Puglia, sono stati utilizzati anche i dati dei controlli effettuati per individuare i residui dei fitosanitari negli Alimenti di origine vegetale prodotti nel territorio regionale. A tale scopo sono stati analizzati i dati forniti dal Polo di Specializzazione Alimenti DAP Bari dell'ARPA Puglia. In particolare, sono stati individuati i prodotti agricoli per i quali negli anni 2015 e 2016 sono state riscontrate delle positività dal Laboratorio di controllo.
Ad ogni prodotto nel quale le analisi chimiche hanno accertato la presenza di residui di uno o più principi attivi è stato associato il Comune di provenienza; per ciascun Comune in cui sono state riscontrate delle positività, sono state considerate in primis le sostanze rinvenute con maggior frequenza e successivamente le altre. In Tabella 21 e Tabella 22 sono riportate - a titolo esemplificativo - le 2 sostanze individuate con maggiore frequenza nei Comuni interessati; in alcune rare eccezioni, si è arrivati fino a 24 diversi residui di principi attivi presenti nei prodotti alimentari provenienti da un singolo Comune le quali sono state considerate per l'individuazione delle sostanze da includere tra quelle prioritarie.

Tabella 21 – Prime due sostanze prioritarie individuate per ogni Comune interessato da positività riscontrate durante le analisi effettuate sulle derrate alimentati prodotte nel 2015

COMUNE	PROVINCIA	SOSTANZA 1	SOSTANZA 2
Acquaviva delle Fonti	Bari	THIAMETHOXAM	
Adelfia	Bari	FENBUCONAZOL	DIMETHOMORPH
Altamura	Bari	BOSCALID	CHLORANTRANILIPROLE
Bitonto	Bari	OXIFLUORFEN	
Cassano delle Murge	Bari	FENHEXAMID	METALAXYL E METALAXYL-M
Castellana Grotte	Bari	PIPERONIL BUTOXIDE	
Conversano	Bari	METALAXYL E METALAXYL-M	PENCONAZOL
Corato	Bari	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Gioia del Colle	Bari	CHLORANTRANILIPROLE	ETOFENPROX
Grumo Appula	Bari	METALAXYL E METALAXYL-M	METANOLO
Locorotondo	Bari	TEBUCONAZOL	FENBUCONAZOL
Modugno	Bari	PENDIMETHALIN	
Mola di Bari	Bari	IMIDACLOPRID	
Molfetta	Bari	CHLORANTRANILIPROLE	IMIDACLOPRID
Monopoli	Bari	THIAMETHOXAM	
Noicattaro	Bari	METRAFENONE	PENCONAZOL
Polignano a mare	Bari	DIMETHOMORPH	PENCONAZOL
Rutigliano	Bari	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Ruvo di Puglia	Bari	METALAXYL E METALAXYL-M	DIMETHOMORPH
Sannicandro di Bari	Bari	BOSCALID	METRAFENONE
Turi	Bari	BOSCALID	DIMETHOATE
Andria	BAT	METALAXYL E METALAXYL-M	CHLORANTRANILIPROLE
Barletta	BAT	CHLORPYRIFOS	DIMETHOMORPH
Bisceglie	BAT	TEBUCONAZOL	CYPERMETHRIN
Canosa di Puglia	BAT	CYPRODINIL	DIFENOCONAZOL
Margherita di Savoia	BAT	CHLORPYRIFOS	THIOPHANATE METHYL
Minervino Murge	BAT	BOSCALID	CHLORANTRANILIPROLE
San Ferdinando di Puglia	BAT	CHLORPYRIFOS	ACRINATHRIN

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Trani	BAT	CYPERMETHRIN	
Brindisi	Brindisi	M METALAXYL E METALAXYL-M	
Ceglie Messapica	Brindisi	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Cellino San Marco	Brindisi	METALAXYL E METALAXYL-M	IPROVALICARB
Cisternino	Brindisi	METALAXYL E METALAXYL-M	CARBENDAZIM
Erchie	Brindisi	IMIDACLOPRID	
Fasano	Brindisi	IMIDACLOPRID	AZOXYSTROBIN
Francavilla Fontana	Brindisi	DIFENOCONAZOL	DIMETHOATE
Mesagne	Brindisi	METALAXYL E METALAXYL-M	
Oria	Brindisi	PIPERONIL BUTOXIDE	
San Donaci	Brindisi	CARBENDAZIM	DIMETHOMORPH
San Pancrazio Salentino	Brindisi	CARBENDAZIM	DIMETHOMORPH
San Pietro Vernotico	Brindisi	METALAXYL E METALAXYL-M	METANOLO
San Vito dei Normanni	Brindisi	DIMETHOATE	
Torre Santa Susanna	Brindisi	DIMETHOMORPH	FLUDIOXONIL
Villa Castelli	Brindisi	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Carpino	Foggia	BOSCALID	PYRACLOSTROBIN
Cerignola	Foggia	METALAXYL E METALAXYL-M	DIMETHOMORPH
Deliceto	Foggia	PIPERONIL BUTOXIDE	CYPERMETHRIN
Foggia	Foggia	METHOXYFENOZIDE	CHLORPYRIFOS-METHYL
Lucera	Foggia	DELTAMETHRIN	PIPERONIL BUTOXIDE
Orsara di Puglia	Foggia	CHLORPYRIFOS	
Orta Nova	Foggia	FENBUCONAZOL	METALAXYL E METALAXYL-M
Poggio Imperiale	Foggia	AZOXYSTROBIN	DIFENOCONAZOL
San Paolo Civitate	Foggia	CHLORPYRIFOS	METAFLUMIZONE
San Severo	Foggia	CARBENDAZIM	CHLORPYRIFOS
Sannicandro Garganico	Foggia	BOSCALID	IMAZALIL
Torremaggiore	Foggia	DIMETHOMORPH	METALAXYL E METALAXYL-M
Troia	Foggia	PIPERONIL BUTOXIDE	
Zapponeta	Foggia	DIMETHOATE	
Alliste	Lecce	3-CHLOROANILINE	CHLORPROPHAM
Campi Salentina	Lecce	IMIDACLOPRID	
Cannole	Lecce	CARBENDAZIM	OXIFLUORFEN
Copertino	Lecce	METALAXYL E METALAXYL-M	CARBENDAZIM
Gagliano del Capo	Lecce	TEBUCONAZOL	
Guagnano	Lecce	DIMETHOMORPH	METALAXYL E METALAXYL-M
Lecce	Lecce	CYPRODINIL	
Lequile	Lecce	BOSCALID	DIMETHOMORPH
Leverano	Lecce	CHLORANTRANILIPROLE	ACETAMIPRID
Nardò	Lecce	CHLORPYRIFOS	DIMETHOATE
Neviano	Lecce	OXIFLUORFEN	
Novoli	Lecce	FENHEXAMID	
Racale	Lecce	PIRIMICARB	
Salve	Lecce	PROPHAM	
Sannicola	Lecce	AZOXYSTROBIN	
Taviano	Lecce	FOLPET	IMIDACLOPRID
Tuglie	Lecce	METALAXYL E METALAXYL-M	IPROVALICARB
Veglie	Lecce	OXIFLUORFEN	IMIDACLOPRID
Avetrana	Taranto	DIMETHOMORPH	METALAXYL E METALAXYL-M
Castellaneta	Taranto	DIMETHOMORPH	METRAFENONE
Ginosa	Taranto	DIMETHOMORPH	METALAXYL E METALAXYL-M
Grottaglie	Taranto	METALAXYL E METALAXYL-M	TEBUCONAZOL
Laterza	Taranto	CARBENDAZIM	METALAXYL E METALAXYL-M
Lizzano	Taranto	METALAXYL E METALAXYL-M	DIMETHOMORPH
Manduria	Taranto	METALAXYL E METALAXYL-M	DIMETHOMORPH
Martina Franca	Taranto	PIPERONIL BUTOXIDE	METALAXYL E METALAXYL-M
Massafra	Taranto	CHLORPYRIFOS	BUPIRIMATE
Montemesola	Taranto	BOSCALID	METALAXYL E METALAXYL-M

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Monteparano	Taranto	METALAXYL E METALAXYL-M	
Mottola	Taranto	AZOXYSTROBIN	DIMETHOMORPH
Palagianello	Taranto	CYPRODINIL	FLUDIOXONIL
Palagiano	Taranto	CHLORPYRIFOS	IMIDACLOPRID
Pulsano	Taranto	DITIOCARBAMMATI	FENHEXAMID
San Giorgio Ionico	Taranto	TEBUCONAZOL	CARBENDAZIM
San Marzano di San Giuseppe	Taranto	METALAXYL E METALAXYL-M	
Statte	Taranto	CHLORPYRIFOS	
Taranto	Taranto	CHLORANTRANILIPROLE	AZOXYSTROBIN

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Tabella 22 – Prime 2 sostanze prioritarie individuate per ogni Comune interessato da positività riscontrate durante le analisi effettuate sulle derrate alimentati prodotte nel 2016

COMUNE	PROVINCIA	SOSTANZA_1	SOSTANZA_2
Altamura	Bari	PIPERONIL BUTOXIDE	
Bitonto	Bari	CIPERMETRINA	
Casamassima	Bari	ACETAMIPRID	DIMETHOMORPH
Cassano delle Murge	Bari	METALAXYL E METALAXYL-M	
Castellana Grotte	Bari	METALAXYL E METALAXYL-M	
Conversano	Bari	DIMETHOMORPH	DIMETHOATE
Corato	Bari	DIMETHOMORPH	METHOXYFENOZIDE
Locorotondo	Bari	ACETAMIPRID	METRAFENONE
Mola di Bari	Bari	METRAFENONE	DIMETHOMORPH
Molfetta	Bari	DIFENOCONAZOL	ACETAMIPRID
Monopoli	Bari	FENHEXAMID	IMIDACLOPRID
Noci	Bari	PIPERONIL BUTOXIDE	
Noicattaro	Bari	METRAFENONE	DIMETHOMORPH
Polignano a mare	Bari	ACETAMIPRID	CHLOTIANIDIN
Putignano	Bari	DIMETHOMORPH	CARBENDAZIM
Rutigliano	Bari	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Ruvo di Puglia	Bari	METALAXYL E METALAXYL-M	DIMETHOMORPH
Santeramo in Colle	Bari	FENAMIPHOS-SULFONE	
Turi	Bari	CARBENDAZIM	DIMETHOMORPH
Andria	BAT	FLUDIOXONIL	AMETOCTRADIN
Barletta	BAT	DIMETHOMORPH	METRAFENONE
Bisceglie	BAT	DIMETHOMORPH	FLUDIOXONIL
Canosa di Puglia	BAT	DIMETHOMORPH	FLUOPYRAM
Margherita di Savoia	BAT	DIFENOCONAZOL	
Minervino Murge	BAT	DIMETHOMORPH	METALAXYL E METALAXYL-M
San Ferdinando di Puglia	BAT	ETOFENPROX	
Trinitapoli	BAT	METALAXYL E METALAXYL-M	
Brindisi	Brindisi	FENHEXAMID	FLUOPYRAM
Ceglie Messapica	Brindisi	METALAXYL E METALAXYL-M	METRAFENONE
Cellino San Marco	Brindisi	IPROVALICARB	METALAXYL E METALAXYL-M
Cisternino	Brindisi	PIPERONIL BUTOXIDE	DIMETHOMORPH
Erchie	Brindisi	METALAXYL E METALAXYL-M	
Fasano	Brindisi	AZOXYSTROBIN	CHLORANTRANILIPROLE
Francavilla Fontana	Brindisi	DIFENOCONAZOL	IMIDACLOPRID
Latiano	Brindisi	DIMETHOMORPH	PYRACLOSTROBIN
Ostuni	Brindisi	METHOXYFENOZIDE	PYRIPROXYFEN
San Donaci	Brindisi	DIMETHOMORPH	METALAXYL E METALAXYL-M

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Torchiarolo	Brindisi	CHLORPYRIFOS	
Torre Santa Susanna	Brindisi	METALAXYL E METALAXYL-M	CYPRODINIL
Apricena	Foggia	PIPERONIL BUTOXIDE	
Ascoli Satriano	Foggia	CIPERMETRINA	AZOXYSTROBIN
Cerignola	Foggia	PIPERONIL BUTOXIDE	PIRIMIPHOS-METHYL
Foggia	Foggia	CHLORPYRIFOS	METALAXYL E METALAXYL-M
Lucera	Foggia	METALAXYL E METALAXYL-M	PYRIMETHANIL
San Severo	Foggia	METALAXYL E METALAXYL-M	
Sannicandro Garganico	Foggia	MCPA	
Torremaggiore	Foggia	CARBENDAZIM	METALAXYL E METALAXYL-M
Alezio	Lecce	DIMETHOMORPH	METAFLUMIZONE
Guagnano	Lecce	METALAXYL E METALAXYL-M	DIMETHOMORPH
Lecce	Lecce	AZOXYSTROBIN	FENHEXAMID
Leverano	Lecce	METHOXYFENOZIDE	FLUOPICOLIDE
Nardo'	Lecce	BOSCALID	PYRACLOSTROBIN
Parabita	Lecce	BIBERTANOL	
Racale	Lecce	CYPRODINIL	IPRODIONE
Salice Salentino	Lecce	DIMETHOMORPH	FENHEXAMID
San Cesario di Lecce	Lecce	AZOXYSTROBIN	DELTAMETHRIN
Tuglie	Lecce	METALAXYL E METALAXYL-M	
Castellaneta	Taranto	DIMETHOMORPH	METRAFENONE
Fragagnano	Taranto	CHLORANTRANILIPROLE	
Ginosa	Taranto	DIMETHOMORPH	METALAXYL E METALAXYL-M
Grottaglie	Taranto	DIMETHOMORPH	METALAXYL E METALAXYL-M
Laterza	Taranto	METALAXYL E METALAXYL-M	INDOXACARB
Lizzano	Taranto	DIMETHOMORPH	IPROVALICARB
Manduria	Taranto	DIMETHOMORPH	IMIDACLOPRID
Martina Franca	Taranto	METALAXYL E METALAXYL-M	DIMETHOMORPH
Massafra	Taranto	DIMETHOMORPH	METRAFENONE
Mottola	Taranto	DIMETHOMORPH	
Palagianello	Taranto	DIMETHOMORPH	METRAFENONE
Palagiano	Taranto	DIMETHOMORPH	FENHEXAMID
San Giorgio Ionico	Taranto	HEXYTHIAZOX	
San Marzano di San Giuseppe	Taranto	DDE	DIMETHOMORPH
Taranto	Taranto	AZOXYSTROBIN	CHLORPYRIFOS

3.4 *Alcune sostanze e problematiche emerse a livello nazionale*

Nel presente paragrafo si riportano – come fornito da ISPRA (152/2017) - alcuni aspetti riguardanti le sostanze più frequentemente rilevate nelle acque a livello nazionale, per le quali è stato riscontrato un maggior numero di superamenti dei limiti di contaminazione previsti dalla norma. Per ciascuna sostanza sono descritti la funzione agronomica, la modalità di azione, la pericolosità per gli organismi non bersaglio sulla base della classificazione armonizzata ai sensi del Regolamento CLP e degli studi disponibili. Si dà conto, inoltre, della situazione regolamentare, indicando se la sostanza è ancora in uso o è stata revocata a livello europeo, o se esistono norme nazionali di limitazione dell'uso. Si indica, infine, la frequenza di ritrovamento nelle acque e quella di superamento dei limiti di qualità ambientali.

Glifosate e AMPA

Il glifosate è l'erbicida più utilizzato nel mondo, le vendite medie in Italia superano le 1.000 tonnellate/anno. È uno dei contaminanti principali delle acque, come ampiamente confermato da dati internazionali[3]; il suo uso è aumentato rapidamente anche in seguito allo sviluppo di coltivazioni geneticamente modificate resistenti alla sostanza. Viene utilizzato su colture arboree ed erbacee, ma viene anche impiegato su aree non destinate alle colture agrarie, come quelle industriali, civili, negli argini e nei bordi stradali.
A marzo 2015, la International Agency for Research on Cancer (IARC) ha inserito glifosate tra i "probabili cancerogeni per l'uomo". Questa categoria comprende le sostanze per cui c'è una evidenza limitata di carcinogenicità sull'uomo, ma sufficiente evidenza negli studi sugli animali con modalità di azione simile a quella nell'uomo. Una successiva valutazione condotta dalla European Food Safety Authority (EFSA) ha concluso che è improbabile che la sostanza sia genotossica (cioè danneggi il DNA) o che presenti una minaccia di cancro per l'uomo. Secondo l'EFSA la diversità di parere deriva dal fatto che sono stati adottati approcci diversi alla classificazione delle sostanze chimiche.
Per la sostanza, già presente nell'allegato VI del CLP con la seguente classificazione armonizzata: lesioni oculari (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 2), è al momento in corso la valutazione di una proposta di riclassificazione da parte del Risk Assessment Committee dell'ECHA.
Il glifosate si lega fortemente al suolo dove subisce una degradazione microbica con produzione del suo principale metabolita AMPA (acido aminometilfosfonico). L'AMPA ha un'attività biologica di potenza paragonabile a quella del composto parentale. Pertanto, nonostante la scomparsa del glifosate, gli effetti tossici su organismi bersaglio si protraggono nel tempo. Molto polare e altamente solubile in acqua; studi di campo riportano una sua maggior persistenza rispetto al parentale, con un tempo di dimezzamento pari a 240-958 giorni in alcuni tipi di suolo. Inoltre, la sostanza risulta fortemente adsorbita al suolo e ha quindi una bassa capacità percolare. A differenza del composto parentale, l'AMPA non presenta una classificazione armonizzata.
In Italia, nel 2014 il glifosate è stato trovato nel 39,7% dei 302 punti di monitoraggio delle acque superficiali in cui è stato cercato, in 76 casi (25,2%) è responsabile del superamento

degli standard di qualità ambientali. Nelle acque sotterranee, invece, è risultato presente nel 4,3% dei 185 punti controllati, in 2 casi (1,1%) con valori superiori agli SQA.
Da segnalare anche la contaminazione dovuta all'AMPA, presente nel 70,9% dei 289 punti di monitoraggio delle acque superficiali, in 151 casi (52,2%) con valori superiori agli SQA. Nelle acque sotterranee è presente nel 4% dei 177 punti di monitoraggio, in 4 casi (2,3%) con valori superiori agli SQA.

Neonicotinoidi

Sono insetticidi sistemici che agiscono sul sistema nervoso bloccando il passaggio degli impulsi nervosi, con conseguente morte degli insetti. Neonicotinoidi di prima generazione sono acetamiprid, imidacloprid e thiacloprid. Neonicotinoidi di seconda generazione sono clothianidin e thiamethoxam. I neonicotinoidi sono la classe di insetticidi più utilizzata a livello mondiale e largamente impiegata anche in Italia. Uno studio condotto a livello mondiale (Systemic Pesticides, 2015) evidenzia come l'uso di queste sostanze sia uno dei principali responsabili della perdita di biodiversità, con un impatto drammatico sugli insetti impollinatori.
L'elevata persistenza, la solubilità in acqua e la mobilità, unite al largo impiego, hanno determinato una contaminazione ambientale su larga scala da neonicotinoidi. Le specie animali più vulnerabili a questi prodotti sono gli invertebrati terrestri, e gli insetti impollinatori, come api e farfalle. In seguito alla moria di api avvenuta negli scorsi anni, tre di questi insetticidi: clothianidin, thiamethoxam and imidacloprid sono stati vietati nella concia delle sementi e nel trattamento al suolo nelle coltivazioni attrattive nei confronti delle api (Reg. EU 485/2013).
Nel 2015 cinque di queste sostanze sono state inserite dalla UE nell'elenco di controllo (Watch List - WL) tra le sostanze da sottoporre a monitoraggio in quanto sulla base delle informazioni disponibili, potrebbero presentare un rischio significativo per l'ambiente acquatico o attraverso l'ambiente acquatico. I cinque neonicotinoidi inseriti nella WL sono: Imidacloprid, Thiacloprid, Thiamethoxam, Clothianidin, Acetamiprid. Ad eccezione del Clothianidin, le altre sono state tutte trovate nelle acque nel biennio di indagine, anche con frequenze molto elevate.

Imidacloprid

È un insetticida approvato in Europa su 72 impieghi con alcune restrizioni relative al periodo di fioritura della coltivazione. È altamente solubile, non volatile e persiste nel terreno, in cui è moderatamente mobile. Appartenente al gruppo cloronicotinici neonicotinoidi è altamente tossico per gli uccelli e le api, moderatamente tossico per i mammiferi e lombrichi. Presenta infine, un basso rischio di bioaccumulare. Come insetticida sistemico agisce sui più importanti fitofagi ad apparato boccale pungente-succhiatore e ad apparato boccale masticatore. Dopo l'applicazione viene traslocato per via xilematica dalle radici, attraverso il fusto, fino a raggiungere le foglie, mantenendo una concentrazione sufficientemente elevata per svolgere la propria azione insetticida.
Il meccanismo di azione si basa sul fatto che il principio attivo si lega permanentemente con i ricettori proteici specifici della membrana delle cellule nervose, impedendo così l'ingresso

dell'acetilcolina (il trasmettitore naturale di impulsi nervosi). Non essendo degradato dall'enzima acetilcolinesterasi, l'azione del principio attivo distrugge il sistema nervoso degli insetti provocandone la morte. L'imidacloprid ha la seguente classificazione armonizzata: tossicità acuta per via orale (cat. 4), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1).
L'imidacloprid è ritrovato sia nelle acque superficiali sia in quelle sotterranee. Nel 2014, in particolare, nelle acque superficiali, è presente nel 53,5% dei 357 punti di monitoraggio controllati, in 7 casi (2%) con valori superiori agli SQA. Mentre in quelle sotterranee è presente nel 10% dei 796 punti, di cui 20 (2,5%) con valori superiori agli SQA.
È stato ritrovato, in particolare, in 6 delle regioni/province monitorate (provincia di Bolzano, Emilia Romagna, Lombardia, Sardegna, Sicilia e Toscana).

Tiametoxam

È un insetticida sistemico appartenente alla famiglia dei neonicotinoidi. Dimostra una notevole efficacia contro insetti ad apparato boccale pungente, succhiante e masticatore come trattamento fogliare o al terreno. Sugli insetti agisce per ingestione e per contatto in quanto, essendo potente antagonista dell'acetilcolina, blocca gli impulsi nervosi a livello dei recettori nicotinici. I fitofagi colpiti cessano di alimentarsi quasi subito dopo l'applicazione.
Il principio attivo viene rapidamente assorbito dall'apparato fogliare. Se applicato al terreno, viene assorbito dalle radici e trasportato attraverso lo xilema negli organi fotosinteticamente attivi della pianta. Nella foglia rimane disponibile a lungo, ed è in grado di prevenire la comparsa di nuove infestazioni.
L'insetticida approvato in Europa, è altamente tossico per le api, moderatamente tossico per i mammiferi, uccelli e lombrichi. Presenta una bassa potenzialità di bioaccumulo. La sostanza, moderatamente persistente sul suolo, ha un'alta probabilità di raggiungere le acque sotterranee.
Il tiametoxan ha la seguente classificazione armonizzata: tossicità acuta per via orale (cat. 4), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1). I dati 2014 indicano che, nelle acque superficiali, si riscontra una presenza del 30% su 180 punti di monitoraggio (1 caso di superamento degli SQA) e nelle acque sotterranee del 10,7% su 392 punti di monitoraggio (2 casi di superamento degli SQA).

Carbendazim

È un fungicida sistemico che esplica la sua azione in maniera preventiva e curativa; penetra rapidamente nei tessuti delle piante dove si diffonde dal basso verso gli apici vegetativi attraverso la linfa. La sostanza, non più approvata a livello comunitario dal 30 novembre 2014, è presente nell'allegato VI del CLP con la seguente classificazione armonizzata: mutagenicità sulle cellule germinali (cat. 1B), tossicità per la riproduzione (cat. 1B), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1).
Nel 2014 è stato rinvenuto nel 45,3% dei 150 punti di monitoraggio delle acque superficiali in cui è stato cercato, in 1 caso è responsabile del superamento degli SQA.
Nelle acque sotterranee è presente nel 12,3% dei 486 punti controllati, in 3 casi con valori superiori agli SQA.

Triazine

Atrazina, simazina, terbutilazina, terbutrina e metaboliti

Gli erbicidi triazinici: atrazina, simazina, terbutilazina e i metaboliti atrazina-desetil e terbutilazinadesetil, sono tra le sostanze più rinvenute nelle acque superficiali e in quelle sotterranee e sono tra quelle che hanno determinato più di frequente il superamento degli standard di qualità ambientale.

La contaminazione è particolarmente rilevante nell'area padano-veneta, dove le sostanze sono state largamente utilizzate, soprattutto nella coltura del mais. Tale diserbante utilizzato per il diserbo selettivo anche del sorgo ed altri seminativi. Efficace anche per diserbare vigneti, frutteti e vivai di piante forestali e ornamentali.

Ad eccezione della terbutilazina, tutte le altre sostanze non sono più autorizzate in Europa, per cui il monitoraggio evidenzia il residuo di una contaminazione storica, dovuta all'ampio utilizzo in passato e alla elevata persistenza ambientale.

L'atrazina non è più utilizzata dagli anni '80, ma il monitoraggio evidenzia ancora una contaminazione importante, soprattutto nelle acque sotterranee. Nel 2014, in particolare, è stata rinvenuta nel 4,1% dei 1.065 punti di monitoraggio delle acque superficiali in cui è stata cercata, in nessun caso c'è il superamento degli SQA. Nelle acque sotterranee la sostanza è presente nel 5,6% dei 2.068 punti controllati, in 2 casi con valori superiori agli SQA.

La sostanza è presente nell'allegato VI del CLP con la seguente classificazione armonizzata: sensibilizzazione della pelle (cat. 1), tossicità specifica per organi bersaglio per esposizione ripetuta (cat.2), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1). Il suo metabolita atrazina-desetil è stato rinvenuto nelle acque superficiali nel 5,1% dei 959 punti di monitoraggio senza superamento degli SQA. Nelle acque sotterranee è presente nel 9,9% dei 2.050 punti di monitoraggio, in 8 casi con valori superiori agli SQA. L'atrazina-desetil non presenta una classificazione armonizzata ai sensi del regolamento 1272/2008.

La terbutilazina è tuttora uno degli erbicidi più utilizzati in Italia (mais, sorgo). È un erbicida selettivo ad azione sistemica che viene assorbito per via radicale. Essendo poco solubile resta localizzato negli strati superficiali. Persiste nel terreno per 4-12 mesi.

Nel 2014 la terbutilazina e il suo metabolita terbutilazina-desetil sono i principali contaminanti delle acque superficiali e sotterranee, anche con concentrazioni superiori a 0,1 µg/L. La contaminazione è presente in gran parte del territorio nazionale, ma nelle regioni dell'area padano-veneta la sua diffusione supera largamente la media nazionale, interessando la maggioranza delle stazioni di monitoraggio delle acque superficiali e gran parte di quelle sotterranee.

La terbutilazina è stata recentemente classificata dal RAC: tossicità specifica per organi bersaglio per esposizione ripetuta (cat.2), tossicità acuta per via orale (cat. 4), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1).

La sostanza è stata riscontrata nelle acque superficiali nel 39,1% dei 1.016 punti di monitoraggio, e nelle acque sotterranee nel 5,9% su 2.063 punti di monitoraggio.

Il suo metabolita è stato riscontrato nel 31,4% in 962 punti di monitoraggio delle acque superficiali. Nelle acque sotterranee, la terbutilazina-desetil è stata rinvenuta nel 12,7% dei 2.030 punti di monitoraggio.
Nelle acque superficiali la terbutilazina e il suo metabolita in 6 casi hanno superato gli SQA, mentre nelle acque sotterranee hanno superato gli SQA rispettivamente in 8 casi e in 11 casi.
La simazina è un erbicida selettivo sistemico che viene assorbito principalmente per via radicale e secondariamente per via fogliare.
La sostanza è classificata come: cancerogena (cat. 2), pericolo acuto per l'ambiente acquatico (cat. 1) e pericolo cronico per l'ambiente acquatico (cat. 1). Essa è stata revocata dal 2005. Nel 2014 è presente nel 4,4% dei 1.069 punti di monitoraggio delle acque superficiali in cui è stata cercata, in nessun caso sopra agli SQA. Nelle acque sotterranee è presente nel 2,2 % dei 2.068 punti controllati, in 3 casi (0,63%) con valori superiori allo SQA.
La terbutrina è un erbicida selettivo ad azione sistemica che viene assorbito per via fogliare e radicale. La sostanza ha una potenzialità moderata di raggiungere le acque sotterranee. Persiste nel terreno per circa 3-4 mesi. Revocata dal 2002, la sostanza non presenta una classificazione
armonizzata. Per questa sostanza vi sono diverse notifiche nell'inventario delle classificazioni e delle etichettature che evidenziano un pericolo intrinseco per la salute umana e per l'ambiente.
Nel 2014 è presente nel 10,7% dei 319 punti di monitoraggio delle acque superficiali controllati, in nessun caso sopra gli standard di qualità ambientali. Nelle acque sotterranee è presente nel 1,2 % dei 564 punti controllati, in 1 caso (0,18%) con valori superiori allo standard di qualità.

3.5 *Zone Vulnerabili da Nitrati*

In adempimento a quanto previsto dalla Direttiva 91/676/CEE, relativa alla "protezione delle acque dall'inquinamento provocato dai nitrati provenienti da fonti agricole", ogni Regione è chiamata all'attuazione di una serie di iniziative che mirino a ridurre l'inquinamento delle acque causato, in maniera diretta o indiretta, dai nitrati di origine agricola ed a prevenire qualsiasi ulteriore inquinamento di questo tipo; nello specifico, ai sensi dell'art. 92 del D.Lgs. 152/2006, la Regione è tenuta a designare le Zone Vulnerabili da Nitrati di origine agricola (ZVN) e ad attuare sulle stesse un Programma d'Azione Nitrati, obbligatorio per la tutela e il risanamento delle acque dall'inquinamento. Sia le ZVN che il Programma d'Azione Nitrati vanno riesaminati almeno ogni quattro anni.
Ai fini dell'elaborazione del presente Programma di monitoraggio si è fatto riferimento all'attuale perimetrazione delle ZVN come approvata dalla Regione Puglia con DGR n. 1787 del 01 ottobre 2013 e rettificata con DGR n.147 del 07 febbraio 2017, per una superficie totale di 104.055 ha (Tabella 23) distribuita sull'intero territorio regionale.
Alle Zone Vulnerabili da Nitrati viene applicato il Programma d'Azione Nitrati di seconda generazione approvato con DGR n. 1408 del 6 settembre 2016.

Tabella 23 – Superficie perimetrata ZVN per le diverse province

PROVINCIA	ESTENSIONE ZVN (HA)
BARI	3.535
BAT	8.290
BRINDISI	738
FOGGIA	75.707
LECCE	3.578
TARANTO	12.207
TOTALE REGIONALE	**104.055**

3.6 L'orientamento e la distribuzione colturale pugliese

Per la trattazione dell'orientamento e della distribuzione colturale pugliese si è fatto riferimento ai seguenti dati:

1. dati del 6° Censimento generale dell'agricoltura (Censimento Agricoltura 2010), che ha rilevato per ciascun Comune le aziende agricole e zootecniche da chiunque condotte, le cui dimensioni in termini di superficie o di consistenza del bestiame allevato siano uguali o superiori alle soglie minime fissate dall'ISTAT nel rispetto di quanto stabilito dal Regolamento (CE) n. 1166/2008.
2. carta dell'uso del suolo, per l'individuazione delle diverse classi di coltura provenienti dai dati del progetto *Corine Land Cover* e risalenti all'anno 2011 al IV livello di classificazione.

Per poter elaborare i dati provenienti da fonti eterogenee è stato predisposto un database unico. Sono, dunque, stati raccolti ed inseriti alcuni dati ricavati dal "VI Censimento Generale dell'Agricoltura 2010" che hanno fornito informazioni riguardo l'estensione in ettari della SAU delle singole colture censite, relative ad ogni comune pugliese. Tali dati sono risultati significativi per la correlazione con il codice *Corine Land Cover* corrispondente e, di conseguenza, con la successiva associazione con i principali principi attivi autorizzati e di conseguenza da ricercare.

Di seguito sono riportate le immagini rappresentative dei risultati del censimento agricoltura 2010, dapprima aggregate per provincia e poi mostrate per tipologia di coltivazione per provincia.

Tali immagini permettono di identificare le tipologie di coltivazioni prevalenti per provincia rapportate agli ettari di terreno utilizzati ai fini di una maggior comprensione del quadro conoscitivo (Figura 3 e Figura 4).

I dati mostrano una certa prevalenza di coltivazione legnose agrarie in tutte le province ad esclusione di Foggia dove prevalgono i seminativi e i cereali. Nelle province BAT, Bari e Taranto le prime tre colture sono le stesse: coltivazioni legnose, seminativi e uliveti; mentre Brindisi e Lecce sembrano tra loro simili con prevalenza di coltivazioni legnose e uliveti.

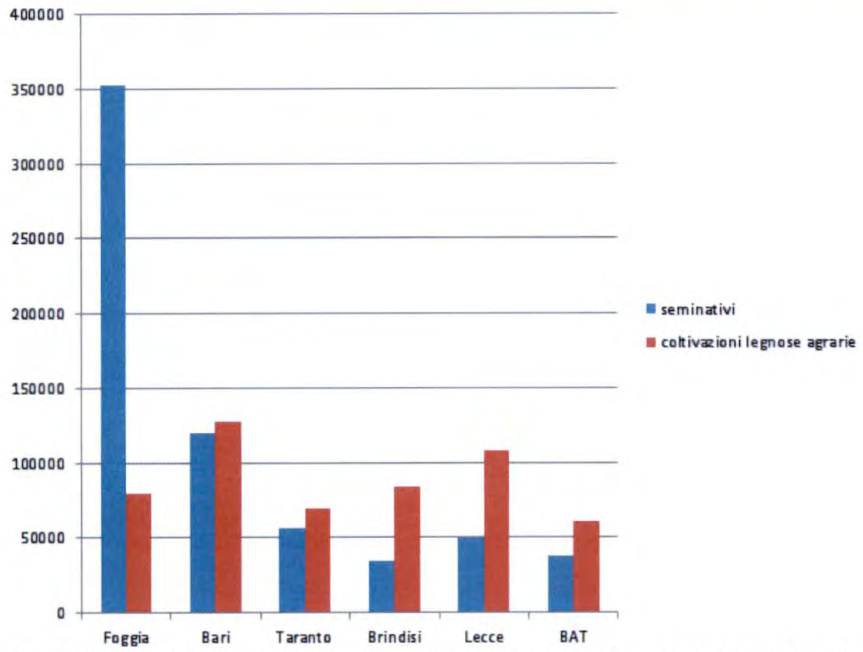
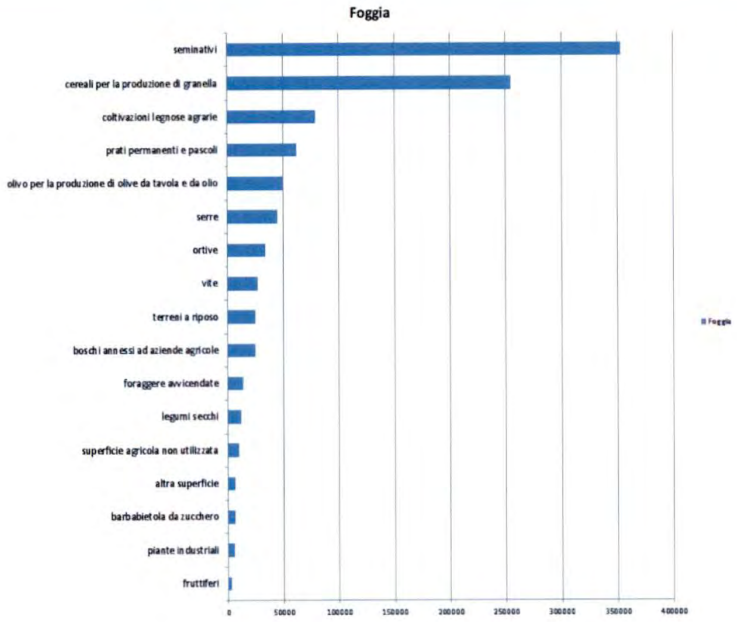
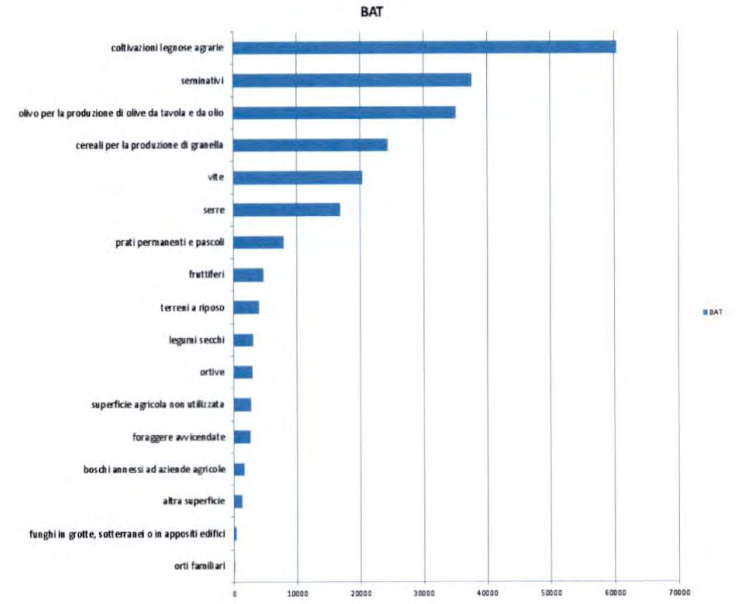


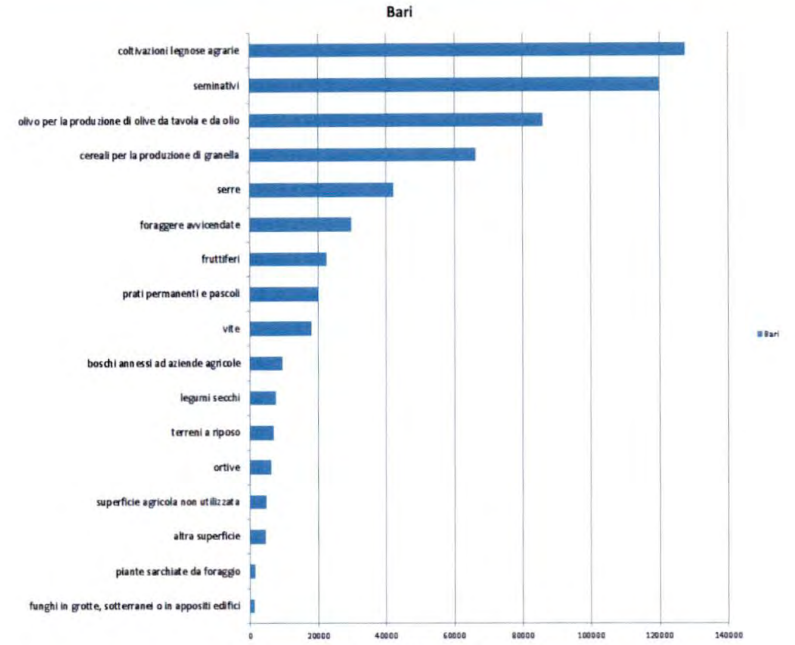
Figura 3 – Principali colture aggregate per seminativi e per coltivazioni legnose agrarie per provincia nella Regione Puglia

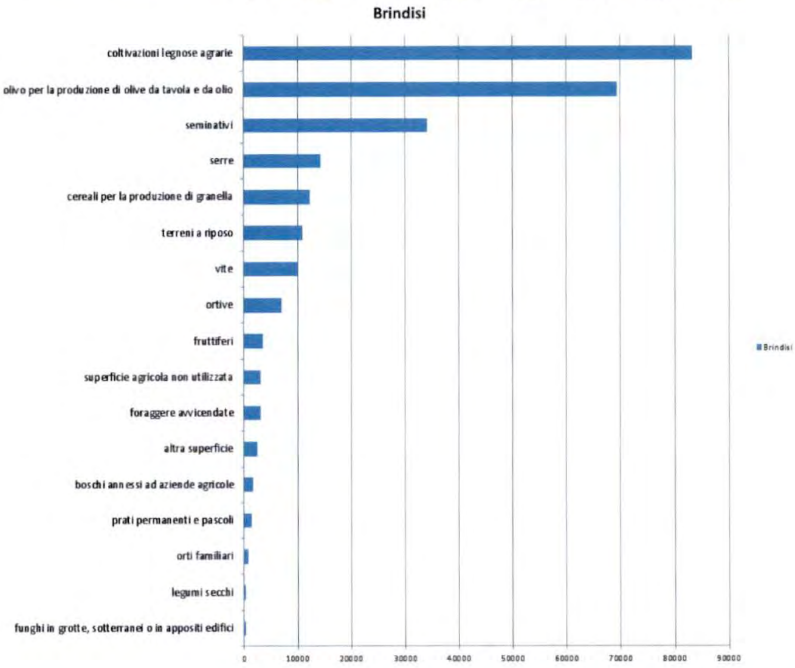
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -





REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -





REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

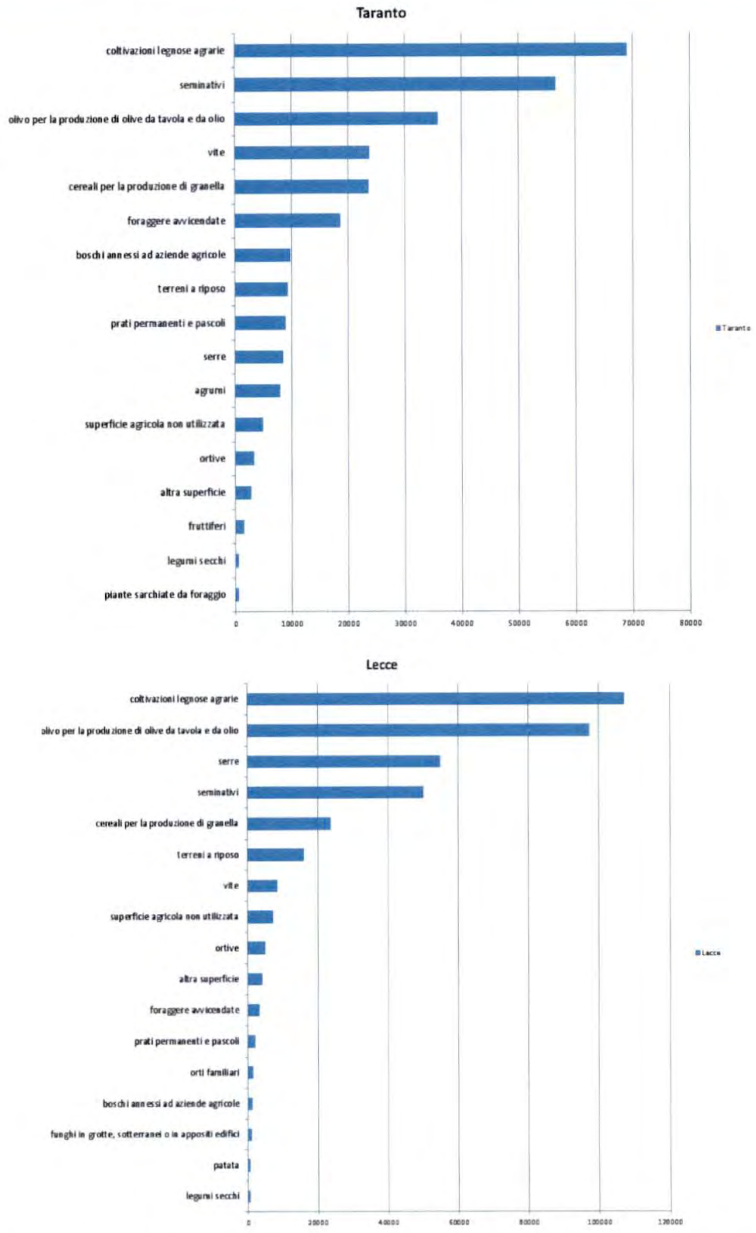


Figura 4 – Principali colture (seminativi e coltivazioni legnose agrarie) aggregate per provincia nella Regione Puglia

Il progetto *Corine Land Cover* (CLC) nasce a livello europeo con le finalità di monitoraggio e rilevamento delle caratteristiche di copertura e uso del suolo. La prima realizzazione risale al 1990 a cui sono seguiti aggiornamenti nel corso degli anni. La copertura *Corine Land Cover* relativa al 1990 ed il suo aggiornamento al 2000 sono riconosciute a livello europeo quali strumenti di base per la definizione delle politiche territoriali da parte di diversi servizi della Commissione Europea tra i quali DG-*Agriculture and Rural Development*.
La copertura *Corine Land Cover* rappresenta, altresì, uno strato informativo di base per lo sviluppo di applicazioni di modellistica e di analisi spaziale su base GIS finalizzati alla derivazione di informazioni complesse utili a supportare le scelte dei *decision maker* a livello Europeo e nazionale. A tal proposito il progetto nazionale e regionale *Corine Land Cover* ha puntato alla realizzazione di un maggior dettaglio tematico espresso attraverso la rappresentazione dell'uso del suolo con un ulteriore livello di dettaglio, ossia il IV livello per le voci relative alle superfici boscate ed altri ambienti seminaturali, secondo la classificazione elaborata dal Ministero dell'Ambiente e della Tutela del Territorio. La validità di tali informazioni è rappresentata dall'attuazione, sull'intero territorio regionale, di specifiche attività miranti alla validazione al suolo dei risultati degli algoritmi di classificazione delle immagini satellitari processate.
I dati del progetto *Corine Land Cover* aggiornati al 2011 (Fonte Regione Puglia-Area Politiche per la mobilità e qualità urbana – Servizio Assetto del Territorio) e classificati al IV livello di dettaglio riportano i dati dell'uso del suolo più aggiornata per quanto riguarda le colture agrarie sull'intero territorio regionale.
Nel CLC 2011 sono state selezionate le seguenti tipologie di pertinenza al fine di individuare la distribuzione delle coltivazioni nel territorio:

2.1 Seminativi
- 2.1.1. Terreni arabili in aree non irrigue
  - 2.1.1.1. Colture Intensive
  - 2.1.1.2. Colture estensive
- 2.1.2.1 Seminativi in aree irrigue
- 2.1.2.3. Colture orticole in pieno campo in serra e sotto plastica in aree irrigue

2.2 Colture permanenti
- 2.2.1 Vigneti
- 2.2.2 Frutteti
- 2.2.3 Oliveti

2.3 Prati stabili
- 2.3.1 Superfici a copertura erbacea: graminacee non soggette a rotazione

2.4 Zone agricole eterogenee
- 2.4.1. Colture annuali associate a colture permanenti
- 2.4.2. Sistemi colturali e particellari complessi
- 2.4.3. Aree prevalentemente occupate da colture agrarie con presenza di spazi naturali importanti
- 2.4.4. Aree Agroforestali

Di seguito, in Tabella 24 si riportano i dati aggregati per provincia per una rapida comprensione ed analisi della distribuzione delle differenti tipologie di coltivazioni (per la loro distribuzione spaziale si consulti l'Allegato 2); nelle tavole relative alla progettazione della rete di monitoraggio i dati saranno invece aggregati per corpo idrico di interesse. Come si può osservare i dati provenienti dal Censimento Agricoltura e quelli provenienti dal progetto *Corine Land Cover* sono coerenti tra loro.

Tabella 24 – Dati di uso del suolo aggregati per provincia

CODICE	DESCRIZIONE	FG	BT	BA	BR	TA	LE	TOT (km²)
221	vigneti	306,7	240,5	224,4	128,7	309,0	105,9	1315,4
222	frutteti e frutti minori	25,4	30,5	276,1	114,3	124,4	10,7	581,4
223	uliveti	576,6	432,0	1057,6	711,2	385,3	1133,6	4296,3
224	altre colture permanenti	2,8	0,4	0,9	-	-	-	4,2
231	superfici a copertura erbacea densa	16,8	2,4	3,5	-	0,6	3,8	27,0
241	colture temporanee associate a colture permanenti	10,1	4,1	37,0	33,7	29,1	31,5	145,5
242	sistemi colturali e particellari complessi	5,8	2,7	4,3	2,6	2,7	9,8	27,9
243	aree prevalentemente occupate da coltura agrarie con presenza di spazi naturali	2,1	0,1	0,8	0,2	0,3	6,1	9,6
244	aree agroforestali	1,0	-	0,1	-	-	-	1,1
2111	seminativi semplici in aree non irrigue	1820,0	432,2	1301,9	545,2	738,0	741,8	5579,0
2112	colture orticole in pieno campo in serra e sotto plastica in aree non irrigue	1,6	0,3	2,8	0,8	0,4	6,9	12,8
2121	seminativi semplici in aree irrigue	2105,9	33,0	0,9	0,0	43,6	0,0	2183,3
2123	colture orticole in pieno campo in serra e sotto plastica in aree irrigue	4,0	0,9	3,6	0,2	0,2	1,1	10,1
								14.193,6

I dati nazionali di vendita dei prodotti fitosanitari forniti dall'ISTAT provengono dalle imprese di commercializzazione. I prodotti sono suddivisi in 4 categorie (fungicidi, insetticidi e acaricidi, erbicidi e vari).
Secondo tali dati i principi attivi distribuiti in agricoltura per la Regione Puglia, negli anni 2001-2014, per kg di ettaro di SAU variano con trend complessivamente in diminuzione (Figura 5).
A livello nazionale tra le sostanze più vendute nel periodo 2009-2012, oltre ai composti organici se ne registrano alcune con quantità in media superiori alle 1.000 tonnellate/anno: Glifosate, 1,3-dicloropropene, Mancozeb, Metam Sodium, Fosetil-Alluminium, Clorpirifos.

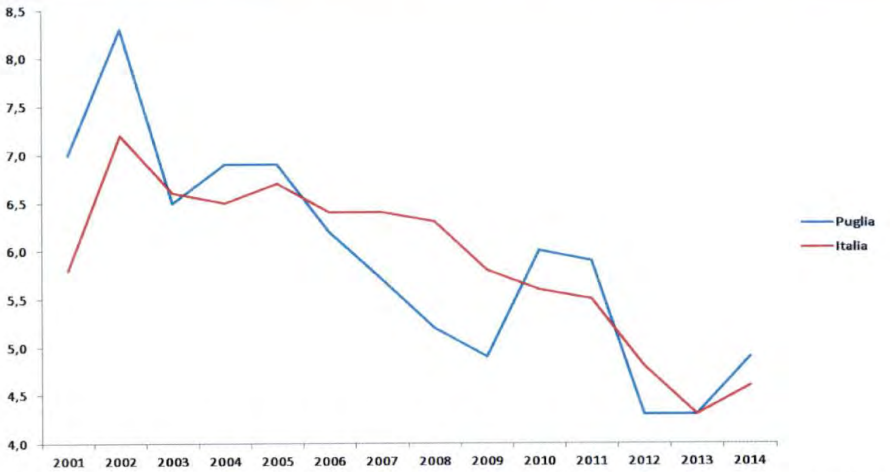


Figura 5 - Principi attivi distribuiti in agricoltura nella Regione Puglia rispetto ai valori medi nazionali. Anni 2001-2014, kg per ettaro di SAU.

4. La metodologia per l'individuazione delle sostanze prioritarie

Il monitoraggio e il controllo dell'evoluzione della contaminazione dovuta all'impiego dei fitofarmaci è un'attività complessa, essendo il numero di sostanze attive potenzialmente presenti molto elevato. É necessario, pertanto, utilizzare una metodologia che permetta di individuare le sostanze da ricercare in via prioritaria che vadano a costituire, oltre a quelle esplicitamente indicate dalla normativa di settore, il profilo di indagine più appropriato per il proprio ambito territoriale, tenendo anche conto delle colture maggiormente utilizzate.

Per l'individuazione delle sostanze prioritarie attive rilevanti, nel presente Programma di monitoraggio sono stati applicati gli indirizzi tecnico-scientifici definiti dall'ISPRA nei Manuali e Linee Guida redatti dal Gruppo di Lavoro Fitofarmaci:

- 71/2011 - "Definizione di liste di priorità per i fitofarmaci nella progettazione del monitoraggio delle acque di cui al D. Lgs. 152/2006 e smi";
- 152/2017 – "Monitoraggio nazionale dei pesticidi nelle acque. Indicazioni per la scelta delle sostanze";
- "Linea guida per la progettazione del monitoraggio di acque, sedimenti e biota" in via di pubblicazione[1], limitatamente all'aggiornamento relativo alla matrice acque.

Oltre ad offrire un'ampia panoramica di indici ed indicatori di comportamento ambientale, indici di stato e indici di pericolo per numerose sostanze attive, le Linee Guida propongono la metodologia da impiegare per definire la lista di controllo da adottare nei profili di monitoraggio delle acque nel proprio ambito territoriale, secondo un semplice schema logico che tiene conto dei dati di vendita dei fitofarmaci, dei risultati dei monitoraggi pregressi, degli indici di comportamento e di pericolo ambientale.

In sintesi, le informazioni utili all'individuazione delle sostanze attive da ricercare sono:

- sostanze individuate dalla normativa, come dettagliate nel Capitolo "Inquadramento Normativo";
- criteri di priorità basati sul pericolo;
- modelli di previsione dell'esposizione, tra cui rivestono particolare importanza i dati di monitoraggio regionali sulle matrici acque e alimenti.

4.1 Criteri per l'individuazione della lista delle sostanze attive rilevanti da monitorare nelle acque

4.1.1 Criteri di priorità basati sul pericolo

L'individuazione della pericolosità delle sostanze si basa su:

1. classificazione ed etichettatura;
2. proprietà sostanza se PBT/vPvB e POP;
3. Interferenti endocrini

[1] La Linea Guida è stata condivisa da Arpa Puglia con il Gruppo di Lavoro regionale ex DGR n. 896/2017, in quanto referente nel GDL – RF che ha redatto la stessa. La LG nel Gennaio 2018 risulta in fase di inoltro ad SNPA per l'ufficializzazione.

In primo luogo si fa riferimento alla classificazione armonizzata stabilita dal regolamento CLP che rappresenta il riferimento normativo in materia di classificazione. Esso adotta i criteri del sistema mondiale armonizzato delle Nazioni Unite (GHS dell'ONU). La classificazione si basa sulle caratteristiche intrinseche delle sostanze.

In secondo luogo si tiene conto di alcune caratteristiche di pericolo che sono di particolare rilevanza per i possibili effetti sulla salute e sull'ambiente considerando le proprietà delle sostanze che le identificano come persistente, bioaccumulabile e tossica (PBT) o molto persistente e molto bioaccumulabile (vPvB) secondo i criteri del regolamento REACH. I POP sono invece individuati nell'ambito della Convenzione di Stoccolma, mentre le sostanze in grado di alterare le funzionalità del sistema endocrino (ED) sono individuante nell'ambito della Strategia Comunitaria sugli interferenti endocrini (COM(1999) 706).

Le sostanze persistenti, bioaccumulabili e tossiche (PBT) o molto persistenti e molto bioaccumulabili (vPvB) sono particolarmente problematiche in quanto possono persistere nell'ambiente ed essere trasportate anche a grande distanza, come gli oceani e le zone polari. Si possono avere effetti nel lungo termine a causa soprattutto del trasferimento nella catena alimentare.

Le conseguenze sono difficilmente reversibili e un'interruzione dei rilasci della sostanza non necessariamente si traduce in riduzione delle concentrazioni.

Gli inquinanti organici persistenti (POP) sono sostanze che non subiscono degradazione, possono essere trasportati a lungo raggio per effetto di processi naturali che coinvolgono il suolo, l'acqua e in particolare l'aria, possono accumularsi nel tessuto adiposo degli organismi ed avere effetti negativi per la salute umana o per l'ambiente. Effetti specifici dei POP possono includere cancerogenesi, allergie e ipersensibilità, danni al sistema nervoso centrale e periferico, disordini riproduttivi, e danni al sistema immunitario; alcuni POP sono anche considerati interferenti endocrini.

Un Interferente Endocrino (ED – Endocrine Disruptors) è una sostanza esogena che altera la funzionalità del sistema endocrino, causando effetti avversi sulla salute di un organismo, o della sua progenie o di una (sotto)popolazione. Si tratta di un gruppo di sostanze ampio ed eterogeneo comprendente contaminanti ambientali sia di origine naturale, come fitoestrogeni ed ormoni, sia di sintesi. Tra quest'ultimi sono inclusi farmaci di tipo ormonale, alcuni pesticidi e vari composti utilizzati in prodotti industriali e di consumo, per i quali l'attività di interferente endocrino è in alcuni casi voluta, ma in altri del tutto accidentale, essendo tali sostanze realizzate per fini diversi.

Attualmente il database della Commissione Europea realizzato nell'ambito della "Strategia Comunitaria sugli interferenti endocrini" contiene n.98 pesticidi con attività di interferenza endocrina.

La scala di priorità è fatta attribuendo un punteggio in funzione delle caratteristiche di pericolo delle sostanze. È utilizzato lo schema della metodologia "*Combined Monitoring based and Modelling based Priority Setting Scheme* (COMMPS)", proposto a livello europeo per l'individuazione delle sostanze prioritarie della Direttiva 2000/60/CE, adattata al caso specifico dei pesticidi.

Si è data maggiore rilevanza alla pericolosità ambientale, perché gli organismi più esposti sono quelli acquatici. Il punteggio più elevato è stato attribuito alle sostanze classificate molto tossiche per gli organismi acquatici con effetti di lunga durata (Aquatic Chronic 1) e con un fattore M, come definito dalla norma, superiore a 10.000. Punteggi decrescenti sono stati assegnati secondo lo schema di tabella 24.

Tabella 25 - Punteggio per la pericolosità ambientale (ISPRA Report 152/2017)

Classificazione o caratteristica di pericolo	Punteggio
PBT/vPvB/POP/ED	MAX
Aquatic Chronic 1 Fattore M > 10000	8
Aquatic Chronic 1 Fattore M = 10000	7
Aquatic Chronic 1 Fattore M = 1000	6
Aquatic Acute 1 Fattore M > 10000	
Aquatic Chronic 1 Fattore M = 100	5
Aquatic Acute 1 fattore M = 10000	
Aquatic Chronic 1 Fattore M = 10	4
Aquatic Acute 1 Fattore M = 1000	
Aquatic Chronic 1 Fattore M=1	3
Aquatic Chronic 1	
Aquatic Acute 1 fattore M = 100	
Aquatic Chronic 2	2
Aquatic Acute 1 fattore M = 10	
Aquatic Chronic 3	1
Aquatic Acute 1 fattore M = 1	
Aquatic Acute 1	

Con riferimento alla valutazione della pericolosità per l'uomo, esposto indirettamente attraverso l'ambiente, sono stati considerati gli effetti a lungo termine, e quindi in primo luogo le proprietà CMR (cancerogene, mutagene, tossiche per la riproduzione) e poi la tossicità di tipo cronico (Tabella 26).

Tabella 26 - Punteggio per la pericolosità sanitaria (ISPRA Report 152/2017)

Classificazione o caratteristica di pericolo	Punteggio
CMR Categorie 1A e 1B/ ED categorie 1 e 2	MAX
CMR Categoria 2	1,8
STOT RE 1	1,4
STOT RE 2	1,2
ED Categorie 3A e 3B	0

In sintesi, la Linea Guida 152/2017 par. 4.4 riporta una tabella di circa 400 sostanze attive con associati i relativi punteggi assegnati secondo i criteri di pericolo su esposti.
La nuova Linea Guida 2018 propone il seguente criterio di suddivisione in classi:

CLASSE PERICOLOSITA' AMBIENTALE	PUNTEGGIO PERICOLOSITA' AMBIENTALE
ALTA	≥ 3 e valore max
MEDIA	2
BASSA	≤1
NC (Non Classificato) (*)	non disponibile

(*) classificazione armonizzata non disponibile

La suddivisione proposta tiene conto del fatto che le sostanze con un punteggio uguale a 1 presentano una classificazione di "nocivo per gli organismi acquatici (H402) o nocivo per gli organismi acquatici con effetti a lungo termine (H412)", quelle con punteggio uguale a 2 presentano una classificazione di "tossico per gli organismi acquatici (H401) o tossico per gli organismi acquatici con effetti a lungo termine (H411)", quelle con punteggio uguale a 3 o superiore presentano una classificazione di "molto tossico per gli organismi acquatici (H400) o molto tossico per gli organismi acquatici con effetti a lungo termine (H410)".
In assenza di classificazione armonizzata non viene assegnato alcun punteggio di pericolosità ambientale e quindi nemmeno la classe.

4.1.2 Criteri di priorità basati sull'esposizione

Relativamente all'esposizione si fa riferimento a:

- indici e indicatori di pressione: tipo e quantità di fitofarmaci impiegati/venduti;
- indici di comportamento ambientale: COMMPS, Indice di priorità IP, GUS, EPA California;
- indice di stato: dati di precedenti monitoraggi locali, IRCA.

4.1.2A Indicatori di pressione

Tra gli indicatori di pressione da considerare rientra quello relativo alla conoscenza di quanto e cosa venga effettivamente impiegato nel proprio ambito territoriale al fine di meglio individuare le sostanze da inserire nei protocolli analitici.
I dati di vendita utilizzati sono relativi ai dati ISTAT triennio 2013 – 2015, riportati nell'Allegato 1 della Linea Guida 2018, espressi attraverso classi di vendita, ai fini della riservatezza statistica. Per ogni sostanza attiva è stata calcolata la quantità media venduta del triennio e l'elenco è stato quindi ordinato per quantità in modo decrescente, come dettagliato nella tabella seguente.

CLASSE VENDITA	POSIZIONE NELLA LISTA
ALTA	dal 1° al 25° percentile
MEDIA	dal 26° al 50° percentile
BASSA	dal 51° al 100° percentile

4.1.2B Indici di comportamento ambientale - Indice di priorità intrinseco

L'Indice di Priorità, come da Linea Guida 71/2011, utilizza i seguenti indicatori: 1) i dati di vendita elaborati per sostanze attive, 2) il tipo di utilizzo, 3) la distribuzione ambientale calcolata con un modello teorico; 4) la degradazione della sostanza attiva. L'Indice di Priorità classico viene calcolato mediante l'integrazione dei punteggi relativi ai fattori discriminanti individuati, in base alla seguente formula:

$$IP\ classico = [Pv + (Pa \times Fu)] \times Fd$$

Successivamente la formula è stata modificata per semplificare e poter utilizzare separatamente la parte dell'Indice di Priorità relativa alle sole caratteristiche chimico-fisico-ambientali della sostanza attiva (denominata IP intrinseco).

IP = Pv +(Pa x Fu x Fd)
IP = Pv + IP intrinseco
IP = Indice di Priorità
Pv = Punteggio vendite
Pa = Punteggio distribuzione ambientale
Fu = Fattore utilizzo
Fd = Fattore degradazione
IP intrinseco = Pa x Fu x Fd

Punteggio distribuzione ambientale (Pa)

Per valutare la distribuzione ambientale dei fitofarmaci viene utilizzato il modello teorico *Mackay* Livello I, che calcola la ripartizione della sostanza attiva all'equilibrio nel modello di mondo. Il modello teorico considera sei compartimenti (aria, terreno, acqua, sedimenti, sedimenti in sospensione, pesci) alla temperatura di 298 °K (25 °C). Il Livello I del modello *Mackay* rappresenta il grado di minor complessità modellistica, ma permette il calcolo della distribuzione della sostanza nei diversi comparti mediante la conoscenza di poche caratteristiche chimico-fisico-ambientali:
1) peso molecolare, 2) pressione di vapore, 3) solubilità in acqua, 4) coefficiente di ripartizione ottanolo/acqua (Kow). Sulla base della percentuale in acqua, calcolata con il Modello *Mackay* Livello I, si assegnano dei punteggi variabili da 1 a 5.
Punteggio distribuzione ambientale - modello *Mackay* Livello I.

% in acqua	Pa
> 99	5
>80-99	4
>60-80	3
>30-60	2
0-30	1

Fattore utilizzo (Fu)

In merito al tipo di utilizzo della sostanza attiva in campo, si è scelto di non considerare gli aspetti relativi alle dosi di impiego e ai possibili tipi di formulazione che possono determinare una ulteriore complicazione e difficoltà. Si è proceduto alla semplificazione del problema considerando solamente i possibili utilizzi autorizzati, in particolare se gli impieghi sono autorizzati sulla coltura o sul terreno. Tali valutazioni partono dal presupposto che il terreno rappresenti il punto di partenza della distribuzione ambientale della sostanza attiva: a) per trattamento diretto, b) per la ricaduta durante i trattamenti fitosanitari della parte area, c) per dilavamento delle colture dopo il trattamento.

Fattore utilizzo	Valore
sul terreno	1
terreno + coltura	0,9

coltura	0,8

Fattore degradazione (Fd)

Per esprimere la degradazione dei fitofarmaci, è stato scelto il valore di DT 50 nel suolo espresso in giorni. I fitofarmaci sono stati raggruppati in classi e ad ogni classe è stato assegnato un fattore più elevato alla classe di fitofarmaci con elevati valori di DT 50.

Fattore degradazione (DT 50 suolo (giorni))	Valore
DT 50 ≤10	0,5
DT 50 >10 ≤ 30	0,8
DT 50 >30 <90	1
DT 50 ≥ 90	1,2
se DT 50 non disponibile	1

La Linea Guida 2018 suggerisce il seguente criterio di suddivisione per classi:

CLASSE AFFINITA' PER LE ACQUE	PUNTEGGIO IPI
ALTA	IPI > 4
MEDIA	2 < IPI ≤ 4
BASSA	IPI ≤2

4.1.2C Indici di stato

Dati di monitoraggio e di controllo della Regione Puglia

I dati di monitoraggio sono un'indicazione fondamentale da considerare nella scelta delle sostanze, in quanto evidenziano direttamente la capacità di contaminare le acque superficiali e sotterranee. Per l'implementazione della procedura per l'individuazione delle sostanze prioritarie in Puglia sono stati utilizzati i dati forniti da ARPA Puglia, con riferimento ai monitoraggi delle acque superficiali e sotterranee e ai controlli effettuati sulle matrici alimentari di produzione agricola locale, come dettagliato nel paragrafo "Attività di monitoraggio esistenti".

Le sostanze per le quali è stata riscontrata la presenza nelle acque superficiali e sotterranee continueranno a essere monitorate e pertanto sono state inserite nell'elenco delle sostanze attive da ricercare.

Nel caso di riscontri su matrici alimentari, si è proceduto ad aggregare l'informazione a livello comunale e successivamente a scala di bacino idrografico. In particolare, per quei comuni inclusi totalmente o quasi (>90%) nel perimetro di un bacino idrografico la sostanza è stata considerata da ricercare per il Bacino e dunque alla stazione di monitoraggio facente riferimento a quest'ultimo; nei casi in cui il perimetro del Comune insiste su più Bacini in

modo proporzionale si è scelto di associare il principio attivo da ricercare a tutti i Bacini purché l'intersezione sia >10% dell'area del Comune.

Indice IRCA

Inoltre, ai fini della definizione della lista di priorità delle sostanze attive da ricercare, è stato utilizzato l'Indice di Rischio di Contaminazione delle Acque (IRCA) elaborato dall'ISPRA con la Linea Guida 71/2011. L'indice proposto rappresenta in forma sintetica i risultati del monitoraggio svolto in Italia sui fitofarmaci, indicando quali sostanze attive sono più frequentemente ricercate e rilevate nelle acque sul territorio nazionale, anche a concentrazioni significative (>0,1 µg/l).
L'IRCA tiene conto della numerosità, della ricorrenza nel tempo e della distribuzione geografica dei riscontri analitici delle sostanze indagate.
Con la Linea Guida 2018, si è proceduto a raggruppare opportunamente i valori di IRCA in cinque classi (CIRCA) nelle quali sono distribuiti i diversi gradi di potenziale rischio per le acque:

IRCA		CIRCA	giudizio
≤ -2,5		1	non contaminante
> -2,5	≤ -1	2	probabile non contaminante
> -1	< 1	3	insufficiente evidenza
≥ 1	< 2,5	4	probabile contaminante
≥ 2,5		5	contaminante
≥ 2,5 (*)		5*	contaminante

(*) calcolato considerando solo concentrazioni di residui > 0,1 µg/l

Gli allegati 3 e 4 della Linea Guida 2018 forniscono i valori di CIRCA per circa 400 sostanze attive ricavati dai dati di monitoraggio degli ultimi 5 anni disponibili (2010-2014) e suddivisi fra acque superficiali e acque sotterranee.
Viene anche riportata una valutazione complessiva sui 5 anni suddivisa in quattro classi di "impatto" (inteso come condizione di stato alterato) sulla risorsa idrica:

IMPATTO COMPLESSIVO	CLASSE DI IMPATTO
non classificabile per insufficienza o assenza di dati	NC
impatto non significativo	BASSA
impatto molto significativo	MEDIA
impatto significativo	ALTA

4.1.3 Definizione di una lista minima di controllo (GdR Fitofarmaci-ISPRA, 2018)

La Linea Guida 2018 propone una lista di controllo minima di 32 sostanze attive da ricercare nelle acque, uguale per tutte le Agenzie Ambientalial fine di ottenere una classificazione delle acque omogenea e completa a livello nazionale, almeno per un certo numero di sostanze attive, scelte fra quelle più vendute e più ritrovate in Italia.

Sono state selezionate quelle sostanze attive che nell'ultimo triennio (2013-2015) hanno registrato una classe di vendita elevata nella maggioranza delle regioni italiane e nello stesso tempo una significativa ricorrenza nelle acque.
Sono state inoltre considerate alcune sostanze attive non più in commercio ma storicamente residuali, rilevate ancora oggi in gran parte del nostro paese, e alcuni metaboliti di sostanze rilevanti.

n°	SOSTANZA	CAS
1	2,4-D	94-75-7
2	Alaclor	15972-60-8
3	AMPA (metabolita)	1066-51-9
4	Atrazina	1912-24-9
5	Atrazina, desetil- (metabolita)	6190-65-4
6	Azoxistrobina	131860-33-8
7	Boscalid	188425-85-6
8	Clorpirifos	2921-88-2
9	Ciprodinil	121552-61-2
10	Dimethoate	60-51-5
11	Dimetomorf	110488-70-5
12	Fenexamid	126833-17-8
13	Fludioxonil	131341-86-1
14	Fluopicolide	239110-15-7
15	Glifosate	1071-83-6
16	Imidacloprid	105827-78-9
17	Linuron	330-55-2
18	MCPA	94-74-6
19	Metalaxil (metalaxil-M)	57837-19-1 (70630-17-0)
20	Metolachlor (s-metolaclor)	51218-45-2 (178961-20-1)
21	Metribuzin	21087-64-9
22	Penconazolo	66246-88-6
23	Pendimetalin	40487-42-1
24	Propamocarb	24579-73-5
25	Propizamide	23950-58-5
26	Pirimetanil	53112-28-0
27	Simazina	122-34-9
28	Spiroxamina	118134-30-8
29	Tebuconazolo	107534-96-3
30	Terbutilazina	5915-41-3
31	Terbutilazina, desetil- (metabolita)	30125-63-4
32	Tiofanate-metil (carbendazim)	23564-05-8 (10605-21-7)

4.1.4 Lista Prioritizzata delle sostanze attive per la Regione Puglia

In Allegato 1 sono riportati i risultati della prioritizzazione delle sostanze ottenuta rielaborando i dati vendita della Puglia (2013-2015) clusterizzati in classi di vendita (ALTA-MEDIO-BASSA) con la classe riscontri in acqua (CIRCA SUPERFICIALI e SOTTERRANEI) e con la classe affinità acqua (CIPI)/PERICOLOSITA' AMBIENTE (delle due è stata inserita la peggiore) con i composti della LISTA MINIMA citati nella linea guida.

4.2 *Correlazione tra uso del suolo e sostanze attive della lista prioritizzata*

Ai fini di associare le sostanze della lista prioritizzata ai diversi contesti territoriali, sono state considerate, e quindi ritenute significative, le colture prevalenti o che ricoprono almeno il 10% di territorio per ogni singolo corpo idrico sotterraneo o superficiale.
Sono così state selezionate le colture più significative, ordinate secondo il criterio di superficie totale ricoperta, unitamente ai relativi codici di identificazione.
Alle colture selezionate sono stati associati i principi attivi in base ai dati sulle autorizzazioni forniti dall'Osservatorio Fitosanitario regionale (BDF agro farmaci – Ecospi srl, Milano) e riportati in Allegato 5.
In seguito sono state analizzate singolarmente le peculiarità di ogni Bacino idrografico e corpo idrico sotterraneo presente nella Regione per una valutazione più approfondita dei carichi potenziali incidenti sui singoli corpi idrici.

In sintesi, per ognuna di queste unità sono stati riconsiderati, ai fini dell'individuazione e prioritizzazione delle sostanze da ricercare, i dati in formato georeferenziato e relativi a:

- carta dell'uso del suolo anno 2011 al IV livello di classificazione;
- associazione coltura-principi in base alle autorizzazioni all'utilizzo i cui dati sono stati forniti dall'Osservatorio Fitosanitario;
- 6° Censimento generale dell'agricoltura (Censimento Agricoltura 2010);
- indagine ISTAT finalizzata al rilevamento dei quantitativi di prodotti fitosanitari distribuiti;
- risultati provenienti dalle considerazioni di supporto al Piano Tutela delle Acque (tipizzazione e caratterizzazione corpi idrici);
- risultati dei monitoraggi attuati da ARPA Puglia su corpi idrici superficiali e sotterranei e sulle matrici alimentari;
- perimetrazione delle ZVN e aree protette;
- individuazione tramite fotointerpretazione su ortofoto 2016 della presenza di impianti fotovoltaici e campi da golf;
- risultati dei precedenti report sullo stato dell'ambiente di ARPA Puglia.

5 Programma di Monitoraggio dei Residui dei Prodotti Fitosanitari della Regione Puglia

In base alle precedenti considerazioni basate sulle Linee Guida di ISPRA, sui risultati del monitoraggio attuato da ARPA Puglia, sul Rapporto attività del Polo di Specializzazione degli Alimenti di Bari – ARPA Puglia, sui superamenti riscontrati in seguito ad attività di verifica (escludendo le matrici non locali) effettuato da ARPA Puglia, sui dati aggregati relativi all'utilizzo prevalente del suolo (ISTAT e Corine Land Cover), sulla Rete di Monitoraggio dei corpi idrici superficiali e sotterranei della Regione Puglia, è stato impostato il Programma di monitoraggio. In Figura 6 è riportato in forma sintetica il flusso decisionale seguito per l'implementazione del Programma.

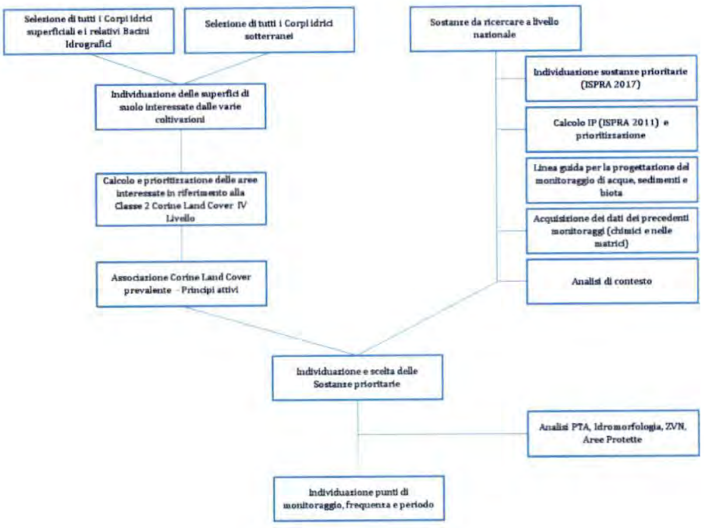


Figura 6 – Flusso decisionale per l'implementazione del programma di monitoraggio

5.1 La Rete di Monitoraggio

La rete di monitoraggio dei residui dei prodotti fitosanitari è stata progettata a partire dalle reti di monitoraggio superficiali e sotterranee attive (llustrate al paragrafo 3.2), configurandosi come sottorete, a meno di alcune stazioni aggiuntive per i corpi idrici superficiali legate a necessità di specifici approfondimenti.
La rete è stata progettata in funzione degli impatti individuati sui singoli corpi idrici:

- per i corpi idrici superficiali sono stati considerati i Bacini sottesi;

- per i corpi idrici sotterranei è stata effettuata la proiezione in superficie, semplificata, in termini di estensione geografica considerata al netto delle sovrapposizioni esistenti nella loro distribuzione sotterranea. Sono stati anche considerati aspetti quali la loro vulnerabilità e direzione di flusso prevalente.

Gli aspetti relativi alla geomorfologia del paesaggio sono stati analizzati attraverso i modelli digitali del terreno.
Ai fini della selezione delle stazioni da monitorare, è stata fatta un'analisi delle pressioni rilevanti, attraverso la stima dei seguenti indicatori:

- uso del suolo codificato *Corine Land Cover*;
- valore di Superficie Agricola Utilizzata SAU;
- analisi idromorfologica;
- presenze/superamenti dei residui dei prodotti fitosanitari nei monitoraggi in essere;
- pressioni di inquinamento diffuso dovuto ad agricoltura;
- confluenza di più corpi idrici;
- perimetrazioni delle ZVN;
- aree protette;
- presenza di impianti fotovoltaici;
- presenza di impianti da golf;

Per le acque superficiali è stata individuata almeno una stazione per ciascun corpo idrico caratterizzato, scelta anche in funzione dello stato ecologico e della classificazione. In particolari aree con rilevanti pressioni sono state individuate ulteriori stazioni di monitoraggio rispetto a quelle già esistenti.
Per le acque sotterranee sono state invece individuate più stazioni di monitoraggio per corpo idrico, in funzione principalmente dei valori di SAU e della direzione di flusso prevalente delle falde. Inoltre sono stati selezionati i pozzi della Rete Maggiore dotati di strumenti per il monitoraggio chimico qualitativo, principalmente con tipo di campionamento dinamico.
In conclusione, la rete regionale per il monitoraggio dei residui dei prodotti fitosanitari consta di n. **98** punti su corpi idrici superficiali e n. **133** pozzi/sorgenti afferenti ai corpi idrici sotterranei. Per identificare le stazioni appartenenti alla rete di monitoraggio dei residui dei prodotti fitosanitari, il codice delle stesse è stato integrato con il suffisso **_RF** (**R**ete **F**itosanitari).
L'elenco delle stazioni di monitoraggio e le mappe complessive della nuova sottorete individuata sono riportate in Allegato 4.

5.2 Lista delle sostanze rilevanti da ricercare

Il Gruppo di Lavoro regionale, ai fini dell'individuazione delle sostanze attive da ricercare, si è orientato sulla definizione di protocolli analitici sito-specifici legati alle diverse tematiche di approfondimento, come di seguito specificate.

Sostanze derivanti da Analisi di Pressione – Uso del Suolo

Per ogni stazione di monitoraggio sono stati ricavati i codici prioritari di uso del suolo provenienti dalle informazioni del *Corine Land Cover*. A questi sono stati associati i principi attivi in base ai dati delle sostanze autorizzate in relazione alle colture regionali prevalenti fornite dall'Osservatorio Fitosanitario (BDF agrofarmaci - Ecospi srl, Milano) e riportate in Allegato 5.
La successiva selezione dei principi attivi da ricercare è avvenuta sulla base dei seguenti criteri:

- per la prima classe di copertura del suolo prevalente, sono state selezionate le sostanze di cui alla *Lista Prioritizzata delle sostanze attive per la Regione Puglia* (Allegato 1) con priorità finale "Alta", "Medio-Alta" e "Media";
- per tutte le altre classi di copertura del suolo che fanno registrare impatti significativi, sono state selezionate le sostanze con priorità finale "Alta" e "Medio-Alta" (Allegato 1);
- sono state inoltre inserite alcune sostanze legate alla presenza sul territorio regionale di impianti fotovoltaici e campi da golf (Allegato 5).

Sostanze derivanti dai pregressi monitoraggi sui corpi idrici

Per ogni sito di monitoraggio, la lista è stata integrata con le sostanze per le quali è stata rilevata la presenza con valori al di sopra dei limiti di quantificazione, durante le attività di monitoraggio dei corpi idrici superficiali e sotterranei del biennio 2015-2016 (Tabella 17, Tabella 18, Tabella 19, Tabella 20).

Sostanze derivanti dalle attività di controllo sui prodotti alimentari di produzione agricola locale

Ai siti di monitoraggio, sono stati inoltre associate le sostanze derivanti dai riscontri sulle matrici alimentari effettuati nell'ambito del Piano Regionale dei Controlli Ufficiali in materia di sicurezza alimentare, secondo la metodologia dettagliata nel paragrafo "Criteri di priorità basati sull'esposizione".
Ai protocolli analitici sito-specifici così definiti, sono stati infine integrati, per tutte le stazioni di monitoraggio, i seguenti gruppi di sostanze:

1. n. 32 sostanze appartenenti alla Lista Minima di Controllo – Manuale Linea Guida ISPRA 2018;
2. n. 11 sostanze appartenenti all'elenco delle sostanze prioritizzate con classe di Priorità finale "Alta" e "Medio–Alta", il cui uso non è associato alle colture prevalenti nel territorio regionale, come risultante dall'elenco delle sostanze autorizzate fornite dall'Osservatorio Fitosanitario;
3. sostanze appartenenti alle tabelle 1/A e 1/B dell' allegato 1 alla parte terza del D. Lgs. 152/2006 (SW) e alla tabella 3 dell'allegato 3 del D. Lgs. 30/2009 (GW).

Analisi della fattibilità analitica

E' importante tenere conto della fattibilità analitica delle sostanze attive selezionate per l'attività di monitoraggio.

Tale tematica investe molteplici aspetti, dalla dotazione strumentale di cui deve essere provvisto un laboratorio che effettua l'indagine di residui di fitofarmaci in matrici ambientali, alla necessità di ricercare sostanze per le quali non sono disponibili metodi applicabili nella normale routine analitica.

Non c'è dubbio che per eseguire analisi in campo ambientale è necessario l'utilizzo di tecnologie avanzate, ormai divenute insostituibili anche in considerazione delle prestazioni richieste dalla vigente normativa. L'evoluzione delle tecniche analitiche e di quelle strumentali, si predilige per i minori falsi positivi GC- MS ed LC –MS, ha condotto i laboratori all'utilizzo quasi in via esclusiva dei metodi multiresiduo, con i quali è possibile la ricerca contemporanea di molteplici sostanze aventi caratteristiche chimico- fisiche diverse.

Pertanto nell'implementazione dell'indagine di nuove molecole, i laboratori privilegiano in prima istanza, per ovvie ragioni di ottimizzazione di tempi e risorse, la verifica di fattibilità con i metodi multiresiduo già in uso.

In buona parte dei casi è possibile, grazie ai metodi multiresiduali, un costante aggiornamento dei protocolli analitici in funzione delle continua evoluzione del panorama dei prodotti in uso nelle moderne pratiche agricole.

L'utilizzo di strumenti in LC /MS di ultima generazione, che consentono l'analisi di campioni acquosi per iniezione diretta, garantisce un ulteriore miglioramento delle prestazioni analitiche e della sicurezza in laboratorio per un utilizzo quasi nullo di solventi organici.

Rimane, tuttavia, importante la tematica delle sostanze attive rilevanti per il loro massiccio impiego, quali il glifosate e l'AMPA suo metabolita, per le quali è necessaria l'adozione di uno specifico metodo analitico a causa della peculiare natura chimica, e altre sostanze, come ad esempio il mancozeb ed il fosetil-alluminio, per i quali a tutt'oggi sono stati sviluppati metodi mono-residuo affidabili ma non sempre applicabili nella routine data la complessità. Un altro aspetto critico della fattibilità analitica investe le caratteristiche prestazionali previste dal D.Lgs. 172/2015 che stabilisce limiti di quantificazione (LOQ) target in relazione agli Standard di Qualità Ambientale (SQA) previsti per ogni sostanza attiva.

Alcuni fitofarmaci inclusi nella Tab. 1/A (Ad esempio Endosulfan, Pentaclorobenzene, Cipermetrina, Diclorvos) hanno SQA e quindi LOQ così bassi da non risultare compatibili con le attività routinarie di monitoraggio anche se inseriti nel metodo multiresiduo e analizzati con la strumentazione più sensibile oggi disponibile.

La possibile alternativa di ricorrere all'utilizzo di grandi volumi di campione, nell'estrazione delle sostanze attive, pone seri problemi di valutazione della risposta strumentale e restituisce un dato quantitativo poco significativo a causa degli elevati livelli d'incertezza che caratterizzano le misure.

L'attuale situazione che vede delle consistenti disomogeneità analitiche tra i laboratori delle Agenzie Regionali per l'Ambiente potrebbe trovare soluzione, soprattutto per le sostanze prioritarie ancora non adeguatamente indagate a livello nazionale, nell'organizzazione delle rete laboratoristica del sistema Agenziale, prevista dalla Legge 132/2016.

Le Agenzie Ambientali nel nuovo asse o sono chiamate, anche per quel che concerne le attività analitiche, a operare in sinergia e sviluppando ruoli di reciproca sussidiarietà.
Il monitoraggio dei residui di fitofarmaci nelle acque rappresenta un incentivo allo sviluppo di una organizzazione in grado di potenziare le specializzazioni ed eccellenze già esistenti a garanzia della qualità e dell'uniformità dell'informazione ambientale resa dai laboratori.

L'Allegato 6 sintetizza i protocolli analitici per ogni stazione di campionamento.

5.3 Le modalità di campionamento e dei metodi di analisi

Le modalità di campionamento e dei metodi di analisi saranno individuate in funzione delle sostanze da monitorare ed in base alla presenza di protocolli già approvati nei precedenti monitoraggi.

5.4 La durata del Programma di monitoraggio e le frequenze di campionamento

Il Programma di Monitoraggio ha durata triennale.

Relativamente alle frequenze di campionamento:

- i corpi idrici superficiali saranno monitorati con cadenza trimestrale (si suggerisce di operare annualmente uno slittamento mensile dei campionamenti in modo da poter rilevare possibili variazioni sia qualitative che quantitative).
- i corpi idrici sotterranei verranno monitorati con cadenza semestrale (I campagna marzo/aprile e II campagna settembre/ottobre).

Sulla base degli esiti del primo anno di monitoraggio, sarà possibile riesaminare la lista dei fitofarmaci da ricercare, nonché le relative frequenze e stazioni di monitoraggio.

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Allegato 1
Elenco prioritizzato sostanze attive Regione Puglia

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Sostanze per corpi idrici superficiali

SOSTANZA ATTIVA	Vendita Fitofarmaci	CLASSE RISCONTRI IN ACQUA (CIRCA SUPERFICIALI)	CLASSE AFFINITA' ACQUA (CIPI)/ PERICOLOSITA' AMBIENTE delle due è STATA INSERITA la peggiore	CLASSE PRIORITA' FINALE DI MONITORAGGIO (CON CIRCA SUPERFICIALI)
(7E, 9Z) DODECADINE- 1- IL ACETATO	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
(E)-8-DODECEN-1-IL ACETATO	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
(E/Z)-8-DODECEN-1-IL ACETATO	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
1,3-Dicloropropene	A	NON CONSISTENTE	M	M-A
2,4-D	A	A	A	A
2,4-DB	B	M	A	M
6-Benziladenina Pura	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
8,10-DODECADIEN-1-OL	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Abamectina	M	NON CONSISTENTE	B	M-B
AC.GRASSI INSATURI SALI DI POTASSIO	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
ACEQUINOCYL	B	NON CONSISTENTE	A	M
Acetamiprid	M	A	M	A
Acibenzolar-S-Methyl	B	NON CONSISTENTE	M	M-B
Acido gibberellico (GA3)	M	NON CONSISTENTE	M	M
Aclonifen	M	NON CONSISTENTE	M	M
Acrinathrin	M	NON CONSISTENTE	B	M-B
Alcooli grassi	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Alpha-cypermethrin	B	NON CONSISTENTE	A	M
Altri batteri o bacilli	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
ametoctradin	M	NON CONSISTENTE	B	M-B
Amidosulfuron	B	NON CONSISTENTE	A	M
AMINOPIRALID	B	NON CONSISTENTE	A	M
amisulbrom	B	NON CONSISTENTE	M	M-B
Amitrole	B	NON CONSISTENTE	A	M
Antischiuma	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Azadirachtin	B	NON CONSISTENTE	M	M-B
Alaclor	LM	LM	LM	LM
BACILLUS SUBT. CEPPO QST 713	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
BACILLUS THURING. VAR. ISTRAELENSIS	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
BACILLUS THURING. VAR.AIZAWAI	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
BACILLUS THURING. VAR.KURSTAKI	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Bagnanti/Adesivanti	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
BEAUVERIA BASSIANA	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Benalaxil M	B	NON CONSISTENTE	M	M-B
Benalaxyl	B	M	M	M-B
Benfluralin	B	NON CONSISTENTE	B	B
AMPA (Metabolita)	LM	LM	LM	LM
Atrazina	LM	LM	LM	LM
Benthiavalicarb-Isopropyl	B	NON CONSISTENTE	M	M-B
Beta-Ciflutrin	B	NON CONSISTENTE	B	B
Bifenazate	B	B	B	B
Bifenox	B	NON CONSISTENTE	B	B
Bispyribac-sodium	B	NON CONSISTENTE	M	M-B
Bitertanol	B	M	M	M-B
bixafen	B	NON CONSISTENTE	M	M-B
BNOA	B	NON CONSISTENTE	B	B
Atrazina desetil (Metabolita)	LM	LM	LM	LM
Brodifacoum	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Azoxystrobin	A	A	M	A
Bupirimate	M	M	M	M
Buprofézine	M	M	B	M-B
Calcio Proexadione	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Captan	A	B	M	M
Carboxin	M	NON CONSISTENTE	B	M-B
Carfentrazone-etile	B	NON CONSISTENTE	M	M-B

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Cera d'api	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Bensulfuron-methyl	B	A	M	A
Bentazone	M	A	M	A
Chlormequat	B	NON CONSISTENTE	M	M-B
Chlormequat chloride	B	NON CONSISTENTE	M	M-B
Boscalid	A	A	A	A
Chlorpropham	B	NON CONSISTENTE	M	M-B
Bromoxynil	A	NON CONSISTENTE	A	A
Chlorpyrifos-methyl	A	M	B	M
Chlorsulfuron	B	NON CONSISTENTE	A	M
CIFLUFENAMID	B	NON CONSISTENTE	B	B
Clethodim	B	NON CONSISTENTE	B	B
Clodinafop-propargyl	M	M	M	M
Clomazone	B	M	A	M
Chlorantraniliprole	M	A	A	A
Cloquintocet	M	NON CONSISTENTE	B	M-B
Clorofentazine	B	NON CONSISTENTE	B	B
Chloridazon	M	A	M	A
Clothianidin	B	NON CONSISTENTE	A	M
Coadiuvanti vari	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Cond. Poliossietilene	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
CONIOTHYRIUM MINITANS	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Cyazofamid	M	NON CONSISTENTE	M	M
Chlorotoluron	A	M	M	M-A
Cyfluthrin	B	NON CONSISTENTE	A	M
Cyhalfop- Butile	B	NON CONSISTENTE	B	B
Chlorpyrifos	A	A	A	A
Clopyralid	M	NON CONSISTENTE	A	M-A
Clorothalonil	A	B	A	M-A
Cycloxydim	A	NON CONSISTENTE	M	M-A
CYPROSULFAMIDE	B	NON CONSISTENTE	B	B
Cyromazine	B	M	A	M
Daminozide	M	NON CONSISTENTE	M	M
Cymoxanil	A	M	M	M-A
Cypermethrin	A	NON CONSISTENTE	A	A
Desmedipham	B	NON CONSISTENTE	M	M-B
Cyproconazole	M	A	A	A
DICHLORPROP-P	B	NON CONSISTENTE	M	M-B
Difeconazole	A	M	B	M
Diflubenzuron	B	NON CONSISTENTE	B	B
Diflufenican	B	NON CONSISTENTE	B	B
Cyprodinil	A	A	M	A
Dazomet	A	NON CONSISTENTE	M	M-A
Deltamethrin	A	NON CONSISTENTE	A	A
Dicamba	B	A	A	A
Dithianon	M	NON CONSISTENTE	M	M
Dodemorph	B	NON CONSISTENTE	B	B
Dimethenamid	B	A	A	M-A
Emamectina benzoato	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Epossiconazolo	B	NON CONSISTENTE	M	M-B
Esfenvalerate	B	NON CONSISTENTE	A	M
Ethephon	M	NON CONSISTENTE	M	M
Dimethoate	A	A	A	A
Ethoprofos	M	M	M	M
Etofenprox	M	A	B	M
Etoxazole	B	M	M	M-B
Etridiazole	B	NON CONSISTENTE	A	M
Famoxadone	B	NON CONSISTENTE	M	M-B
Dimethomorph	A	A	A	A
Fenazaquin	B	M	M	M-B
Fenbuconazole	B	NON CONSISTENTE	M	M-B
Diquat	A	NON CONSISTENTE	M	M-A

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Fenoxaprop-P-ethyl	B	NON CONSISTENTE	M	M-B
fenpyrazamine	M	NON CONSISTENTE	M	M
Fenpyroximate	B	NON CONSISTENTE	B	B
Flazasulfuron	B	NON CONSISTENTE	M	M-B
Flonicamid	M	NON CONSISTENTE	M	M
Florasulam	B	NON CONSISTENTE	M	M-B
Fluazifop-P-butyl	M	NON CONSISTENTE	M	M
Fluazinam	B	NON CONSISTENTE	B	B
Dodine	A	NON CONSISTENTE	M	M-A
Ethofumesate	B	A	A	M-A
Flufenoxuron	B	NON CONSISTENTE	A	M
Fenamidone	M	A	M	M-A
fluopyram	M	NON CONSISTENTE	M	M
Fluoxastrobin	B	NON CONSISTENTE	M	M-B
Fenexamid	A	A	B	M-A
Flutriafol	B	NON CONSISTENTE	A	M
FLUXAPYROXAD	B	NON CONSISTENTE	A	M
Folpet	A	B	M	M
Fludioxonil	A	A	M	A
Flufenacet	B	A	A	M-A
Fosfato ferrico	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
fosfito di potassio	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
fosfonato diosodico	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Fosfuro di alluminio	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Fosthiazate	B	NON CONSISTENTE	M	M-B
Fluopicolide	M	A	M	M-A
Fluroxypyr	A	NON CONSISTENTE	M	M-A
Halosulfuron-Methyl	B	NON CONSISTENTE	M	M-B
Hexythiazox	M	M	M	M
Idrazide maleica	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Idrossido di rame	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Imazamox	B	NON CONSISTENTE	A	M
FORMETANATE	A	NON CONSISTENTE	M	M-A
Indoxicarb	M	NON CONSISTENTE	B	M-B
Iodosulfuron-metil-sodium	B	NON CONSISTENTE	M	M-B
Fosetil-aluminium	A	NON CONSISTENTE	M	M-A
ipconazole	M	NON CONSISTENTE	B	M-B
Glufosinate ammonio	M	NON CONSISTENTE	A	M-A
Glyphosate	A	A	A	A
isopyrazam	B	NON CONSISTENTE	B	B
Isoxaben	B	NON CONSISTENTE	M	M-B
Isoxaflutole	B	NON CONSISTENTE	M	M-B
KIESELGUHR	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Kresoxim methyl	B	M	M	M-B
Imidacloprid	A	A	A	A
LECANICILLIMUM MUSCARIUM	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
loxynil	A	NON CONSISTENTE	A	A
Iprodione	A	B	A	M-A
Lufenuron	B	NON CONSISTENTE	M	M-B
Iprovalicarb	M	A	M	M-A
Mandipropamid	M	M	M	M
Lamda-Cyhalothrin	M	NON CONSISTENTE	A	M-A
Lenacil	M	A	A	A
Mefenpir Dietile	M	NON CONSISTENTE	B	M-B
Mepanipyrim	B	M	M	M-B
Meptyldinocap	A	NON CONSISTENTE	B	M
Linuron	A	A	A	A
Mesotrione	B	NON CONSISTENTE	M	M-B
Metaflumizone	M	NON CONSISTENTE	B	M-B
Mancozeb	A	NON CONSISTENTE	A	A
MCPA	A	A	A	A
Metaldehyde	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE

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Mecoprop (MCPP)	A	A	M	A
Metam-potassio	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Mesosulfuron-Metile	M	NON CONSISTENTE	A	M-A
Metalaxil-M	A	A	A	A
metconazolo	B	NON CONSISTENTE	M	M-B
Metalaxyl	A	A	A	A
Metil Oleato + M. Palmitato	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Metamitron	M	A	M	A
Metam-sodium	A	NON CONSISTENTE	A	A
METOMIL	M	M	M	M
Metazachlor	M	A	M	M-A
Metrafenone	A	M	B	M
Methiocarb	A	M	M	M-A
Metsulfuron-methyl	B	NON CONSISTENTE	A	M
Metiram	A	NON CONSISTENTE	A	A
Metolachlor	M	A	M	M-A
NAD	B	NON CONSISTENTE	A	M
Napropamide	B	NON CONSISTENTE	M	M-B
Nicosulfuron	B	A	M	M
OLIO DI PARAFFINA	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
OLIO DI TIMO	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
OLIO MINERALE	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Ossicloruri di rame	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
ossido di rame	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Metossifenozide	M	A	M	M-A
Metribuzin	A	A	A	A
Oxyfluorfen	A	M	B	M
PAECILOMYCES FUMOSOROSEUS	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Myclobutanil	A	A	A	A
NAA	A	NON CONSISTENTE	M	M-A
PENTHIOPYRAD	B	NON CONSISTENTE	B	B
Penthoxamide	B	M	M	M-B
Phénamiphos	M	M	M	M
Phenmedipham	M	NON CONSISTENTE	M	M
Oxadiazon	M	A	M	M-A
picoxistrobin	M	NON CONSISTENTE	M	M
Pinoxaden	M	NON CONSISTENTE	M	M
Pirimicarb	B	A	M	M
Pirimiphos-methyl	B	NON CONSISTENTE	M	M-B
Polisolfuri	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Polisolfuro di calcio	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
POTASSIO IDROGENO CARBONATO	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
PRETILACHLOR	B	NON CONSISTENTE	B	B
Oxamyl	B	M	M	M-A
Profoxydim	B	NON CONSISTENTE	B	B
Penconazole	A	A	M	A
Propanil	M	B	M	M-B
Propaquizafop	M	NON CONSISTENTE	B	M-B
Propargite	B	M	M	M-B
Pendimethalin	A	A	A	A
Phosmet	A	NON CONSISTENTE	M	M-A
PROPOXYCARBAZONE	B	NON CONSISTENTE	A	M
Prochloraz	A	M	A	A
Proquinazid	B	NON CONSISTENTE	M	M-B
Prosulfuron	B	NON CONSISTENTE	M	M-B
Proteine idrolizzate	M	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Protioconazolo	M	NON CONSISTENTE	B	M-B
PSEUDOM. CHLORORAPHIS DSMZ 13134	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Pymetrozine	B	NON CONSISTENTE	A	M
Pyraclostrobin	A	M	B	M
Pyraflufen - Ethyle	B	NON CONSISTENTE	A	M
Pyrethrins o Piretro	B	NON CONSISTENTE	M	M-B

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Pyridaben	B	NON CONSISTENTE	M	M-B
Pyridate	B	NON CONSISTENTE	M	M-B
Propamocarb	A	A	M	A
PYRIOFENONE	B	NON CONSISTENTE	M	M-B
Pyriproxyfen	B	NON CONSISTENTE	M	M-B
Pyroxsulam	B	NON CONSISTENTE	M	M-B
Quinoxifen	M	M	M	M
QUIZALOFOP- P	M	NON CONSISTENTE	B	M-B
Quizalofop-ethyl	M	NON CONSISTENTE	B	M-B
Quizalofop-Ethyl-Isomero D	B	NON CONSISTENTE	B	B
Repellenti	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Rimsulfuron	B	B	A	M-B
Sale sodico di Alchiletere solfato	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
SEDAXANE	M	NON CONSISTENTE	M	M
S-METOLACLOR	M	NON CONSISTENTE	M	M
Solfato di ferro	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Solfato di rame	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
solfato di rame tribasico	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
SPINETORAM	B	NON CONSISTENTE	B	B
Spinosad	A	NON CONSISTENTE	B	M
Spirodiclodifen	B	NON CONSISTENTE	B	B
SPIROMESIFEN	B	NON CONSISTENTE	B	B
SPIROTETRAMAT	M	NON CONSISTENTE	B	M-B
Propiconazole	M	A	M	M-A
SPODOPTERA LITTORALIS	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Sulcotrione	B	NON CONSISTENTE	A	M
Tau - Fluvalinate	B	NON CONSISTENTE	M	M-B
Propineb	A	NON CONSISTENTE	M	M-A
Tebufenozide	B	B	B	B
Tebufenpyrad	M	NON CONSISTENTE	M	M
Tefluthrin	B	NON CONSISTENTE	B	B
Tepraloxidim	B	NON CONSISTENTE	M	M-B
Propyzamide	A	A	M	A
Tetraconazole	M	NON CONSISTENTE	M	M
Thiabendazole	B	NON CONSISTENTE	A	M
Thiametoxam	M	M	M	M
THIENCARBAZONE	B	NON CONSISTENTE	M	M-B
Thifensulfuron-methyl	B	NON CONSISTENTE	M	M-B
Pyrimethanil	M	A	A	A
Simazina	LM	LM	LM	LM
Tolclofos-methyl	M	NON CONSISTENTE	M	M
Triacloprid	B	M	NON CONSISTENTE	NON CONSISTENTE
Triadimenol	B	M	A	M
TRI-ALLATE	B	NON CONSISTENTE	M	M-B
Triasulfuron	B	M	A	M
Tribenuron-methyl	M	NON CONSISTENTE	M	M
TRICHIDERMA GAMSII	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
TRICHODERMA ASPERELLUM	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
TRICHODERMA ATROVIRIDE	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
TRICHODERMA HARZIANUM RIFAI	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Spiroxamina	A	A	M	A
Tebuconazole	A	A	M	A
Trifloxystrobin	M	M	B	M-B
Triflumuron	B	NON CONSISTENTE	B	B
Triflusulfuron-methyl	B	NON CONSISTENTE	M	M-B
TRINEXAPAC-ETILE	B	NON CONSISTENTE	B	B
Triticonazolo	B	NON CONSISTENTE	M	M-B
Valifenalate	B	NON CONSISTENTE	B	B
VERTICILLIUM ALBO-ATRUM	B	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE
Zetacipermetrina	B	NON CONSISTENTE	A	M
Terbuthylazine	B	A	M	M (LM)
Zolfo	A	NON CONSISTENTE	NON CONSISTENTE	NON CONSISTENTE

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Zoxamide	M	NON CONSISTENTE	M	M
Terbuthylazine desetil (metabolita)	LM	LM	LM	LM
Thiophanate-methyl	A	NON CONSISTENTE	M	M-A
Thiram	A	NON CONSISTENTE	A	A
Triciclazolo	B	A	A	M-A
Triclopyr	M	NON CONSISTENTE	A	M-A
Ziram	A	NON CONSISTENTE	A	A

Sostanze per corpi idrici sotterranei

SOSTANZA ATTIVA	Vendita Fitotarmaci	CLASSE AFFINITA' ACQUA (CIPI)/ PERICOLOSITA' AMBIENTE (inserita la la peggiore)	CLASSE RISCONTRI IN ACQUA (CIRCA SOTTERANE)	CLASSE PRIORITA' FINALE DI MONITORAGGIO (CON CIRCA SOTTERANEE)
1,3-Dicloropropene	A	M	M	M-A
2,4-D	A	A	M	A
Alaclor	LM	LM	LM	LM
AMPA (Metabolita)	LM	LM	LM	LM
Atrazina	LM	LM	LM	LM
Atrazina desetil (Metabolita)	LM	LM	LM	LM
Azoxystrobin	A	M	A	A
Captan	A	M	NON CONSISTENTE	M-A
Bentazone	M	M	A	A
Boscalid	A	A	A	A
Bromoxynil	A	A	NON CONSISTENTE	A
Chlorantraniliprole	M	A	M	M-A
Chloridazon	M	M	A	A
Chlorpyrifos	A	A	A	A
Clopyralid	M	A	NON CONSISTENTE	M-A
Clorothalonil	A	A	B	M-A
Cycloxydim	A	M	NON CONSISTENTE	M-A
Cymoxanil	A	M	M	M-A
Cypermethrin	A	A	NON CONSISTENTE	A
Cyproconazole	M	A	A	A
Cyprodinil	A	M	A	A
Dazomet	A	M	NON CONSISTENTE	M-A
Deltamethrin	A	A	NON CONSISTENTE	A
Dimethoate	A	A	B	M-A
Dimethomorph	A	A	A	A
Diquat	A	M	NON CONSISTENTE	M-A
Dodine	A	M	NON CONSISTENTE	M-A
Fenexamid	A	B	A	M-A
Fludioxonil	A	M	A	A
Fluroxypyr	A	M	NON CONSISTENTE	M-A
FORMETANATE	A	M	NON CONSISTENTE	M-A
Fosetil-aluminium	A	M	NON CONSISTENTE	M-A
Glufosinate ammonio	M	A	NON CONSISTENTE	M-A
Glyphosate	A	A	M	A
Imidacloprid	A	A	A	A
Ioxynil	A	A	NON CONSISTENTE	A
Iprodione	A	A	M	A
Lamda-Cyhalothrin	M	A	NON CONSISTENTE	M-A
Lenacil	M	A	M	A
Linuron	A	A	M	A
Mancozeb	A	A	NON CONSISTENTE	A
MCPA	A	A	M	A
Mecoprop (MCPP)	A	M	B	M-A
Mesosulfuron-Metile	M	A	NON CONSISTENTE	M-A
Metalaxil-M	A	A	B	M-A
Metalaxyl	A	A	A	A
Metam-sodium	A	A	NON CONSISTENTE	A
METOMIL	M	M	A	M-A

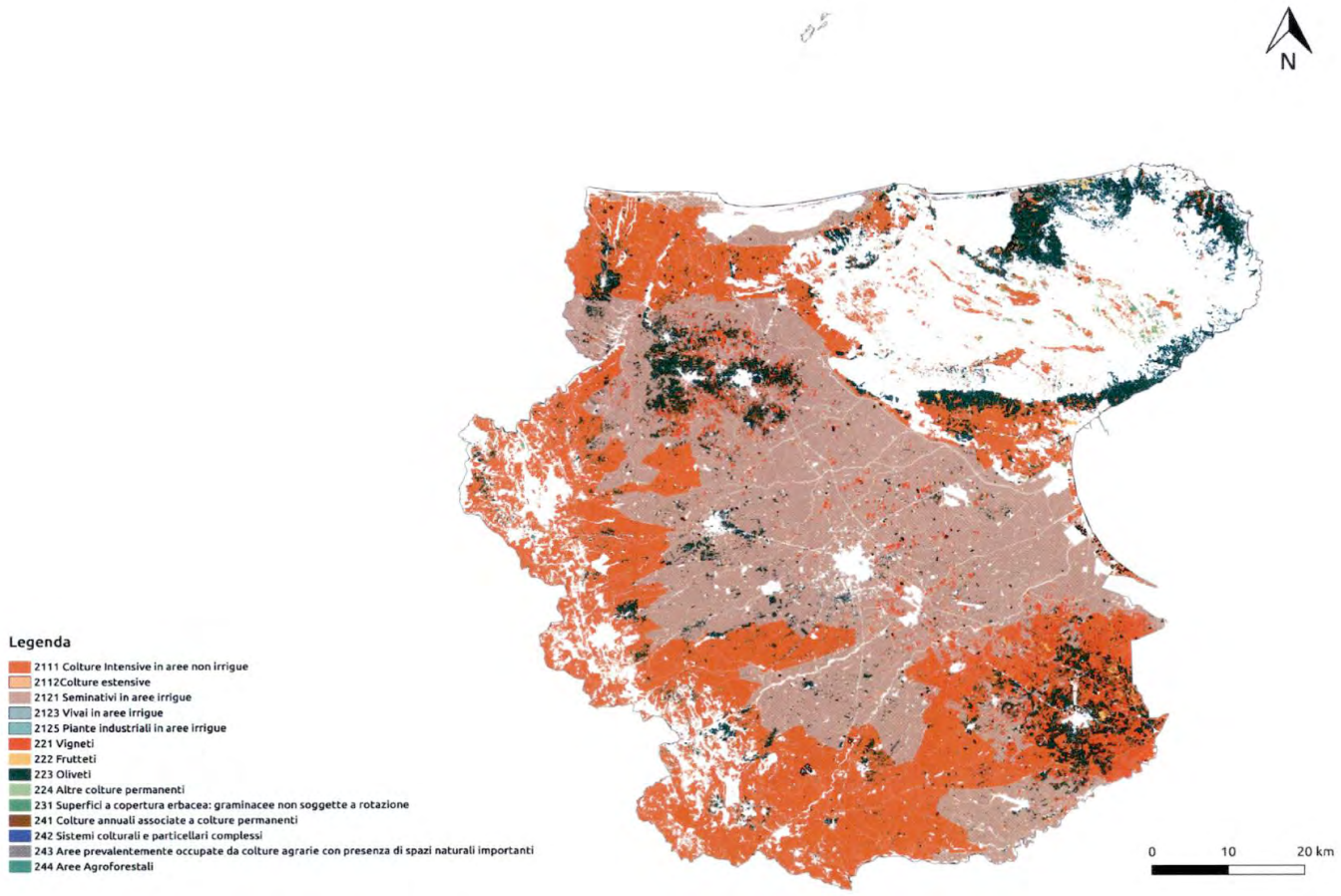
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Methiocarb	A	M	A	A
Metiram	A	A	NON CONSISTENTE	A
Metolachlor	M	M	A	M-A
Metribuzin	A	A	B	M-A
Myclobutanil	A	A	B	M-A
NAA	A	M	NON CONSISTENTE	M-A
Phénamiphos	M	M	A	M-A
Oxadiazon	M	M	A	M-A
Penconazole	A	M	A	A
Pendimethalin	A	A	M	M-A
Phosmet	A	M	NON CONSISTENTE	M-A
Prochloraz	A	A	NON CONSISTENTE	A
Propamocarb	A	M	A	A
Propineb	A	M	NON CONSISTENTE	M-A
Propyzamide	A	M	M	M-A
Thiametoxam	M	M	A	M-A
Pyrimethanil	M	A	A	A
Simazina	LM	LM	LM	LM
Triadimenol	B	A	A	M-A
Tebuconazole	A	M	A	A
Terbuthylazine	B	M	A	M (LM)
Terbuthylazine desetil (metabolita)	LM	LM	LM	LM
Thiophanate-methyl	A	M	NON CONSISTENTE	M-A
Thiram	A	A	NON CONSISTENTE	A
Triclopyr	M	A	NON CONSISTENTE	M-A
Ziram	A	A	NON CONSISTENTE	A

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Allegato 2
Uso del suolo per Provincia

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Mappa CLC 2011 con i soli codici di interesse Provincia di Foggia

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Mappa CLC 2011 con i soli codici di interesse Provincia di Barletta-Andria-Trani

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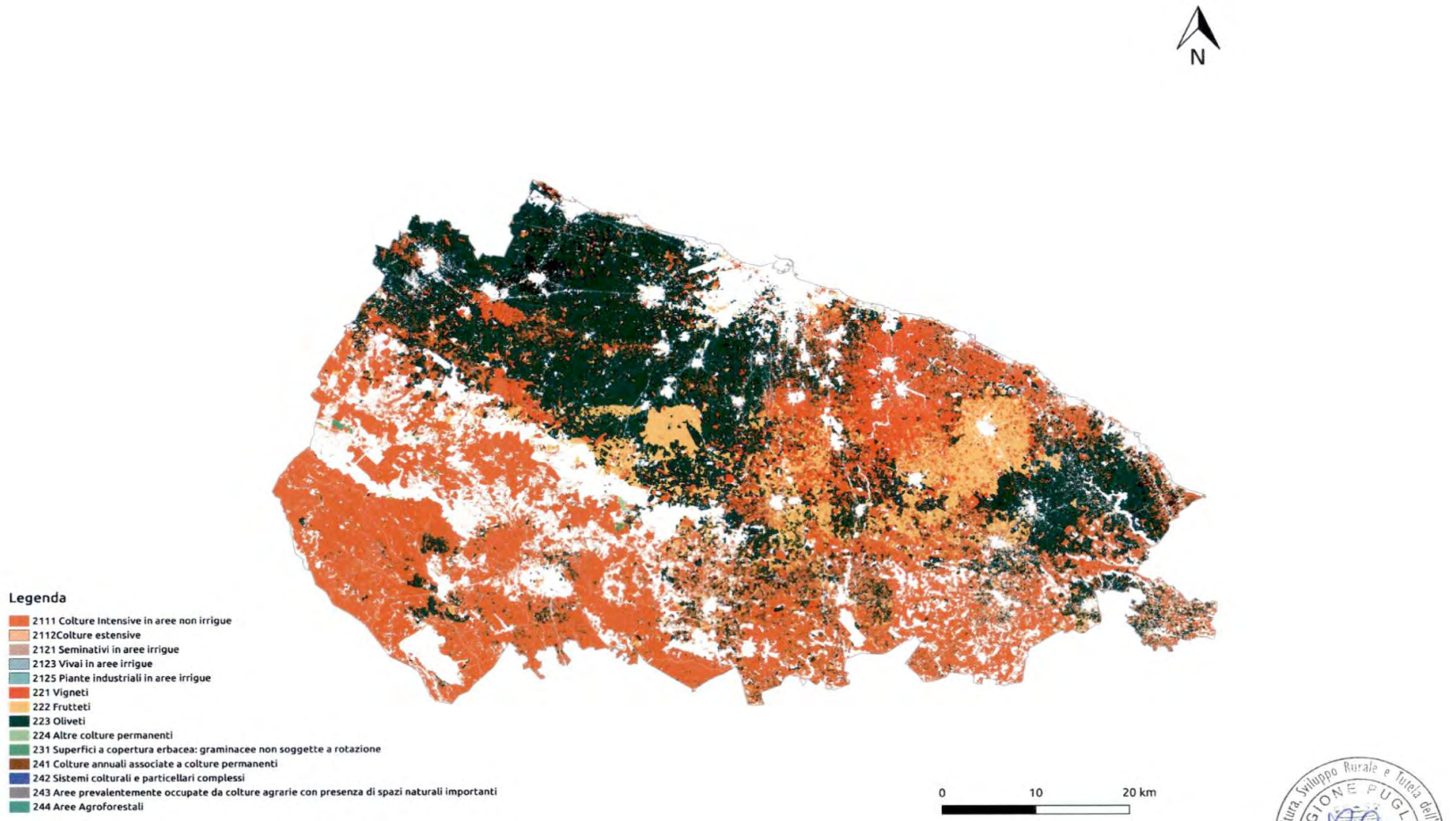
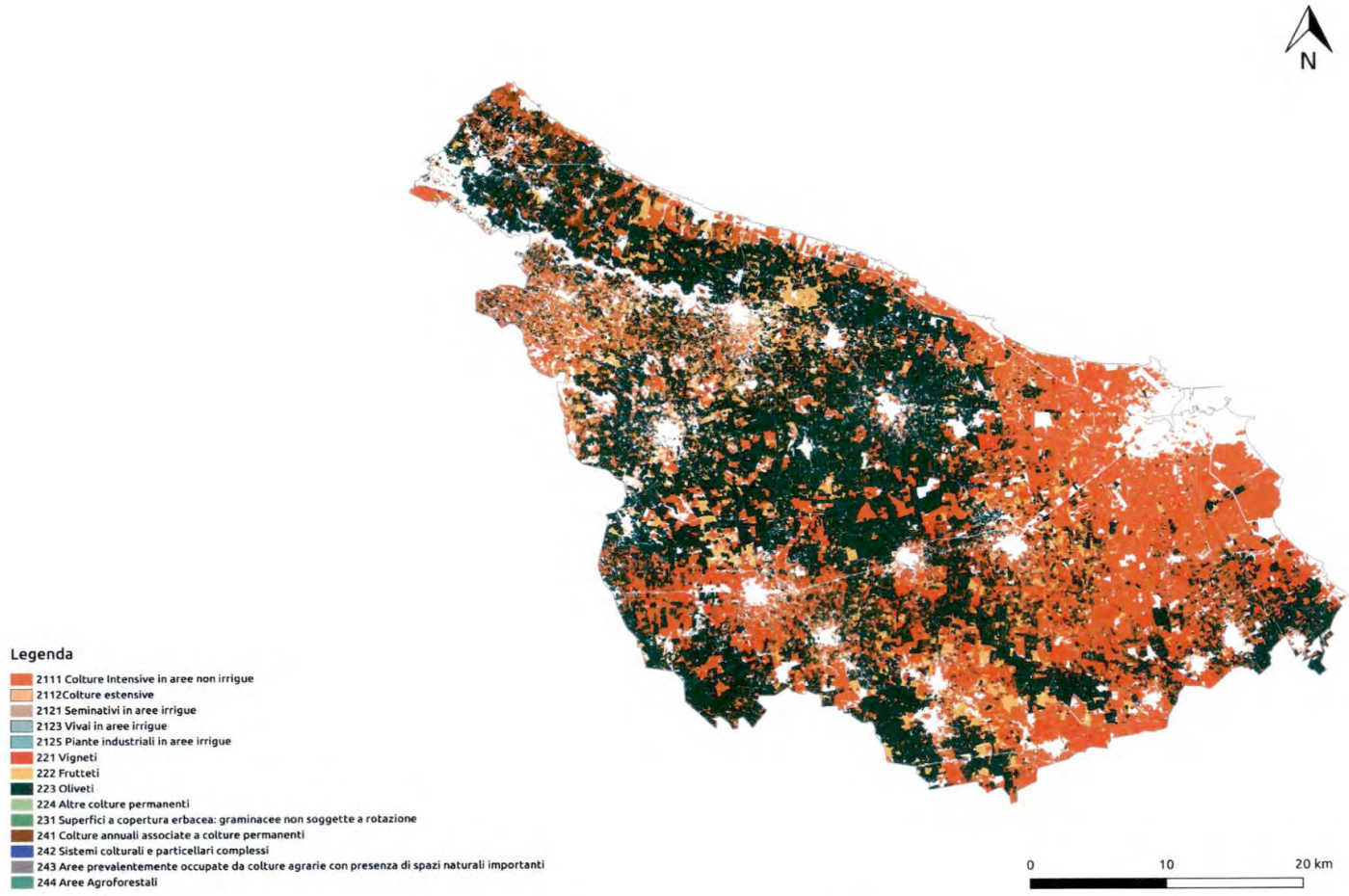
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Mappa CLC 2011 con i soli codici di interesse Bari

REGIONE PUGLIA - Uff. Agricoltura, Sviluppo Rurale e Tutela dell'Ambiente - SEZIONE RISORSE IDRICHE

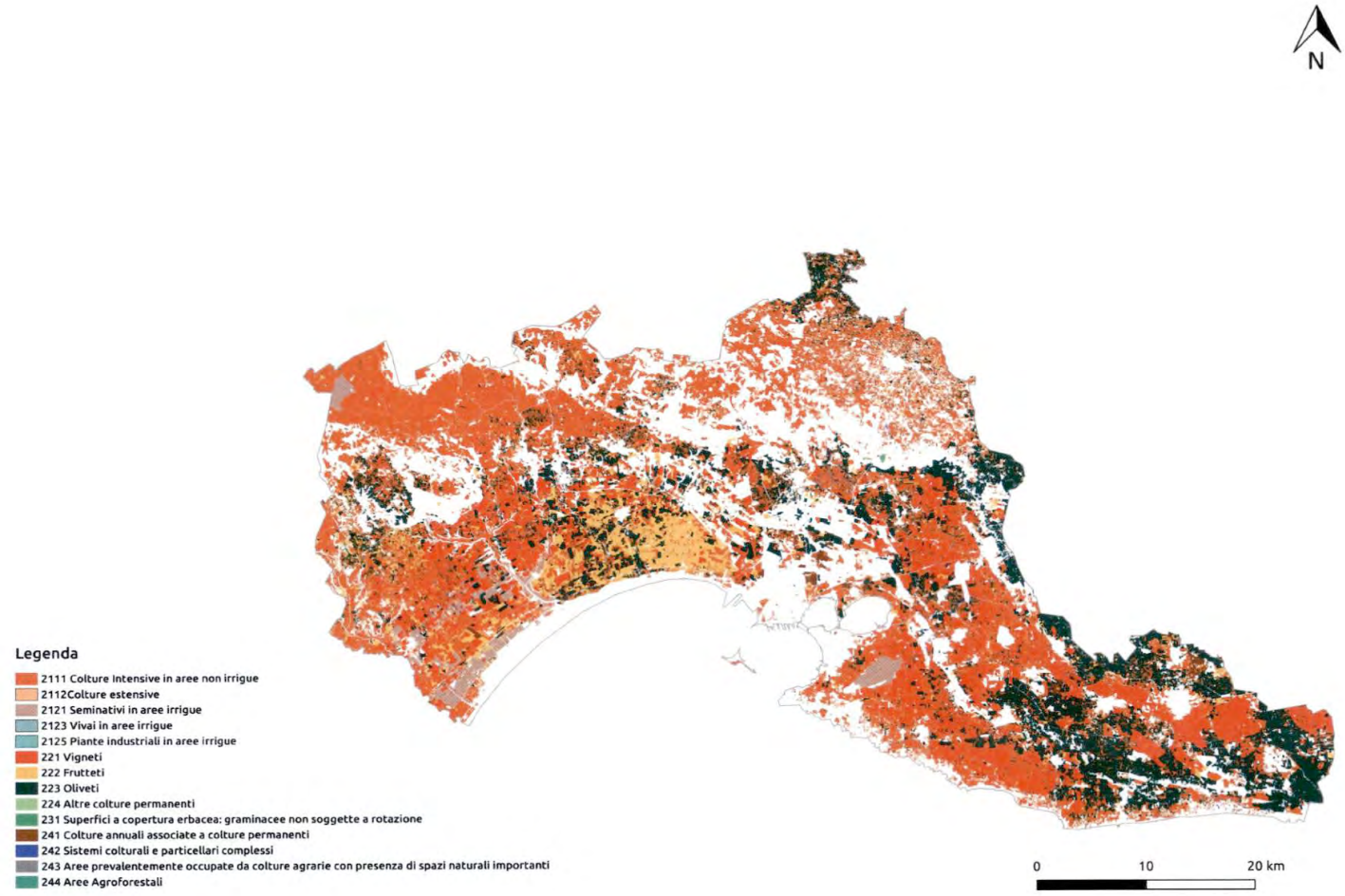
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Mappa CLC 2011 con i soli codici di interesse Brindisi

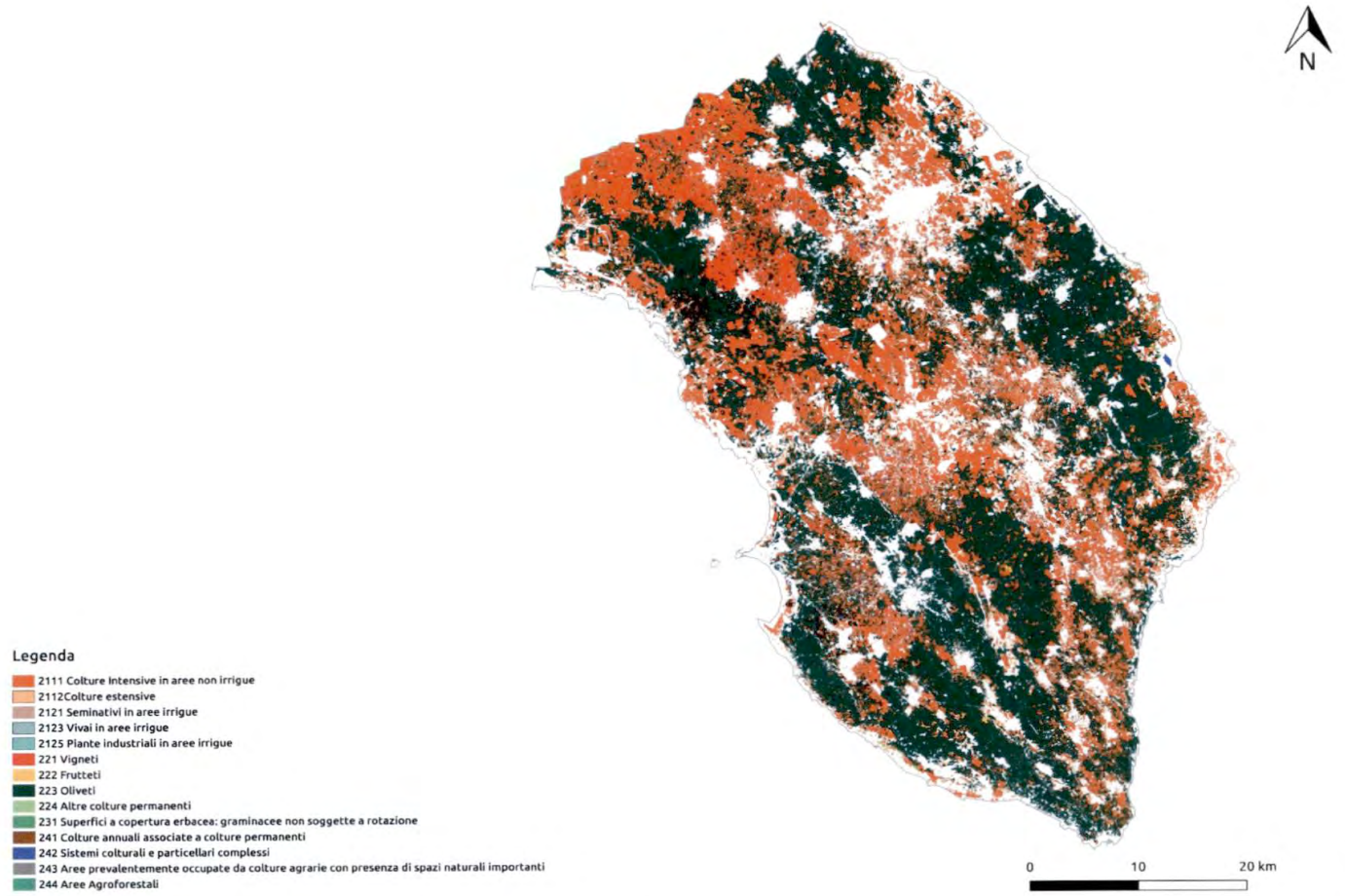
-72-

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Mappa CLC 2011 con i soli codici di interesse Taranto

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Mappa CLC 2011 con i soli codici di interesse Lecce

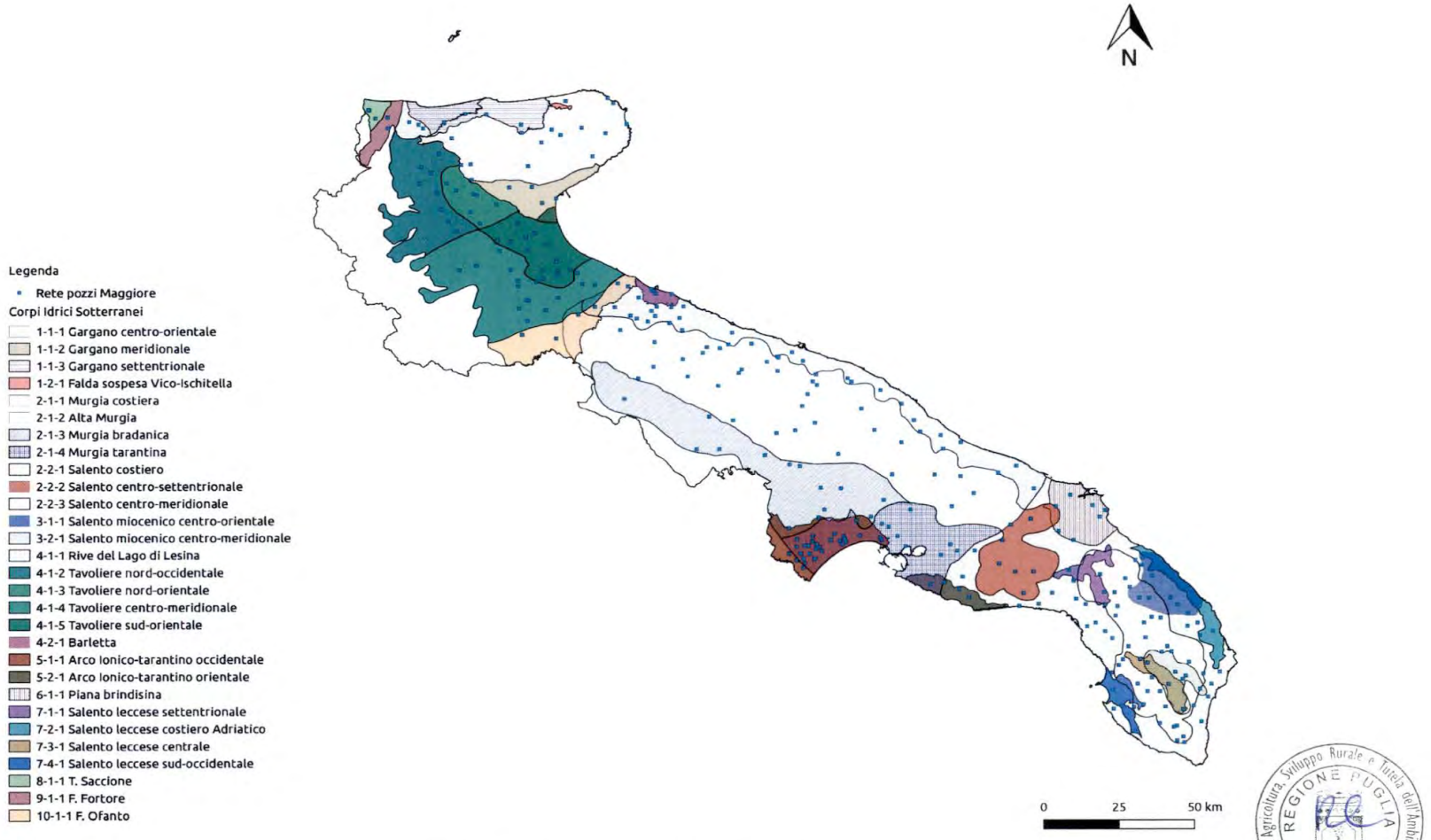
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Allegato 3
Tematismi considerati

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

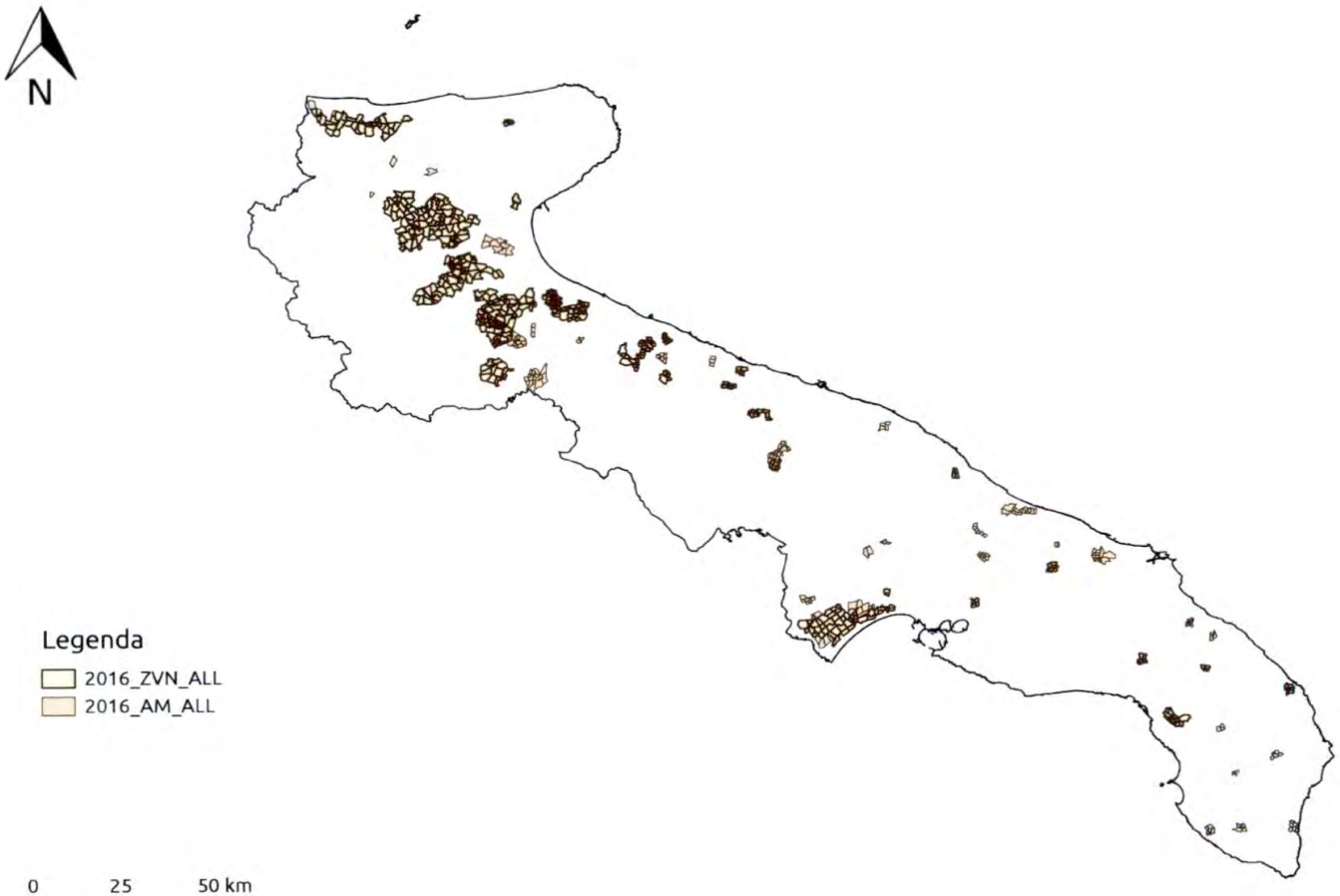
Stazioni di monitoraggio dei corpi idrici superficiali

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Stazioni di monitoraggio dei corpi idrici sotterranei

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Zone vulnerabili da nitrati

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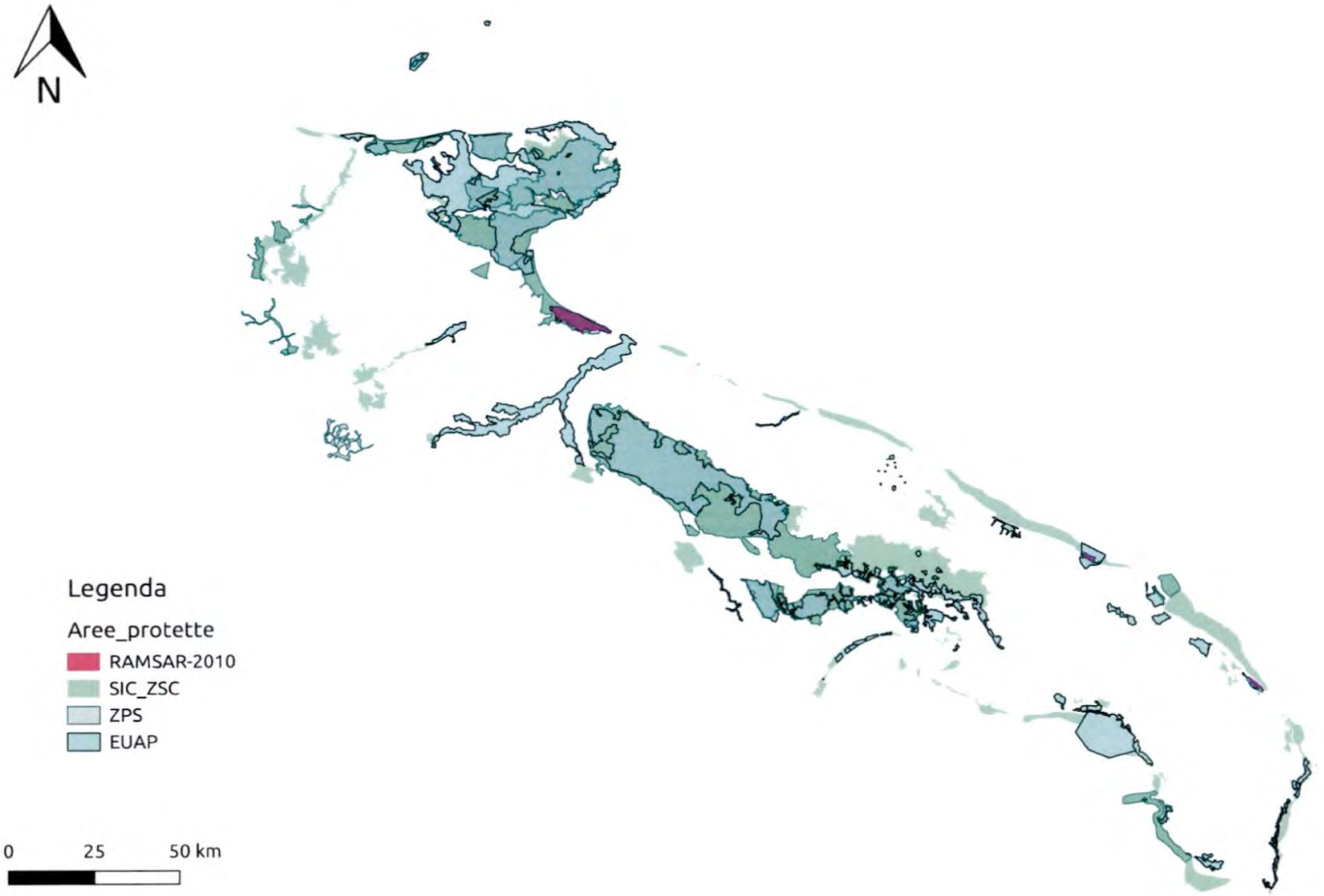
REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -



Individuazione di tutte le aree protette in Puglia per attività di monitoraggio più specifiche

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Allegato 4
Rete di monitoraggio dei residui dei prodotti fitosanitari nei corpi idrici superficiali e sotterranei pugliesi

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Rete Fitosanitari
Stazioni monitoraggio Corpi Idrici Superficiali

Dip. Agricoltura, Sviluppo Rurale e Tutela dell'Ambiente
REGIONE PUGLIA
SEZIONE RISORSE IDRICHE

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

TIPOLOGIA CORPO IDRICO	CORPO IDRICO SUPERFICIALE	STAZIONI DI MONITORAGGIO
ACQUE DI TRANSIZIONE	Alimini Grande	AT_AL01_RF
	Cesine	AT_CE01_RF
	Laguna di Lesina - da sponda occidentale a località La Punta	AT_LE01_RF
	Laguna di Lesina - da La Punta a Fiume Lauro/ Foce Schiapparo	AT_LE02_RF
	Laguna di Lesina - da Fiume Lauro / Foce Schiapparo a sponda orientale	AT_LE03_RF
	Vasche Evaporanti (Lago Salpi)	AT_LS01_RF
	Mar Piccolo - Primo Seno	AT_MP01_RF
	Mar Piccolo - Secondo Seno	AT_MP02_RF
		VM_PS01_RF
	Baia di Porto Cesareo	AT_PC01_RF
	Punta della Contessa	AT_PU01_RF
	Torre Guaceto	AT_TG01_RF
	Lago di Varano	AT_VA01_RF
		AT_VA02_RF
		AT_VA03_RF
CORSI D'ACQUA	Torrente Asso	CA_AS01_RF
	Bradano_reg.	CA_BR01_RF
	Cervaro_18	CA_CE01_RF
	Cervaro_16_1	CA_CE02_RF
	Cervaro_16_2	CA_CE03_RF
	Cervaro foce	CA_CE04_RF
	Fiume Celone_18	CA_CL01_RF
	Fiume Celone_16	CA_CL02_RF
	Carapelle_18	CA_CR01_RF
	Carapelle_18_Carapellotto	CA_CR02_RF
	confl. Carapellotto_foce Carapelle	CA_CR03_RF
	Foce Carapelle	CA_CR04_RF
	Fortore_12_1	CA_FF01_RF
	Fortore_12_2	CA_FF02_RF
	Lato	CA_FL01_RF
	Ofanto - confl. Locone	CA_FO01_RF
	confl. Locone - confl. Foce Ofanto	CA_FO02_RF
		CA_FO4N_RF
	Foce Ofanto	CA_FO03_RF
	Galaso	CA_GA01_RF
	F.Grande	CA_GR01_RF
	Lenne	CA_LN01_RF
	C.Reale	CA_RE01_RF
	Salsola ramo nord	CA_SA01_RF
	Salsola ramo sud	CA_SA02_RF
	Salsola confl. Candelaro	CA_SA03_RF
	Tara	CA_TA01_RF
	Candelaro_12	CA_TC01_RF
	Candelaro_16	CA_TC02_RF
	Candelaro sorg. -confl. Triolo_17	CA_TC03_RF
	Candelaro confl. Triolo-confl. Salsola_17	CA_TC04_RF
	Candelaro confl. Salsola - confl. Celone_17	CA_TC05_RF
	Candelaro confl. Celone - foce	CA_TC06_RF
	Canale della Contessa	CA_TC07_RF
	Foce Candelaro	CA_TC08_RF
	Saccione_12	CA_TS01_RF
	Foce Saccione	CA_TS02_RF
	Torrente Triolo	CA_TT01_RF

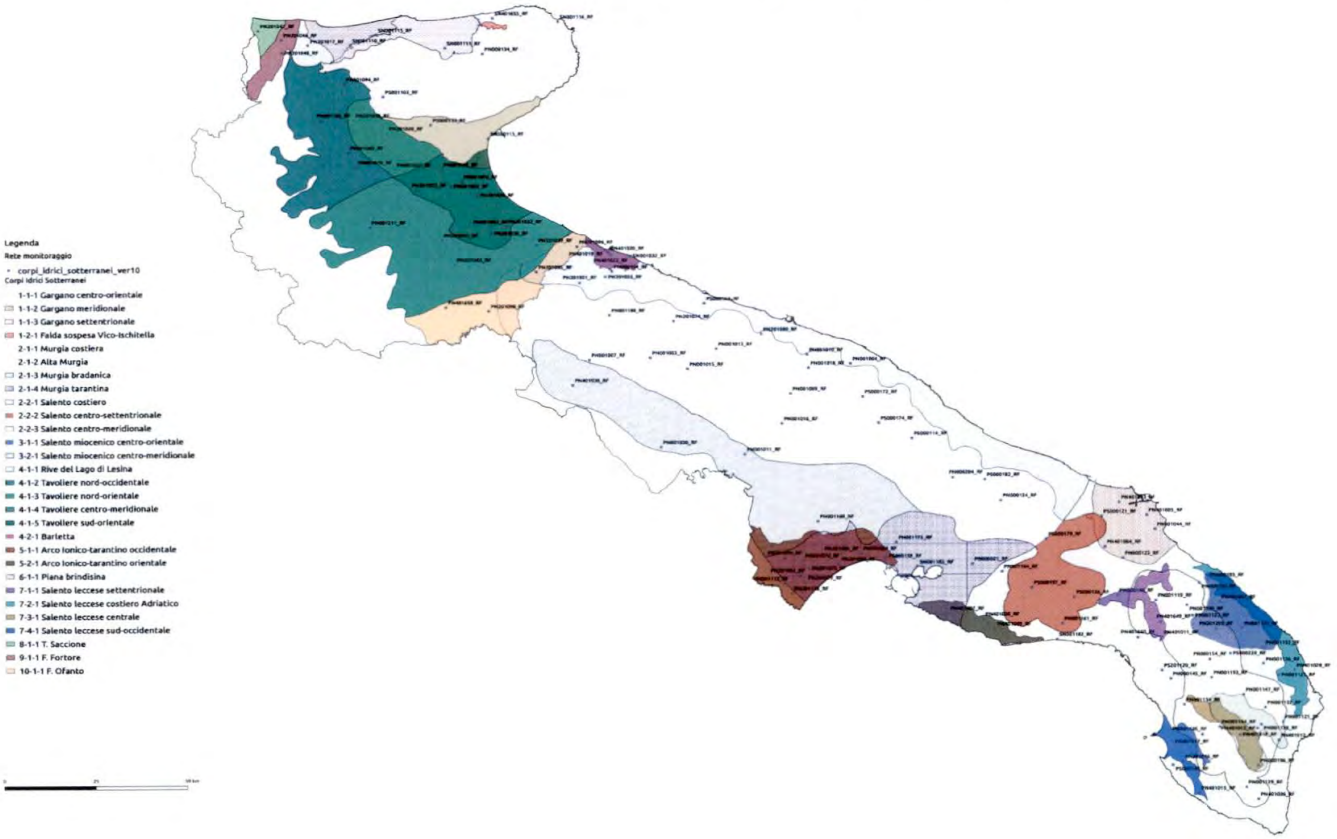
Dipartimento Agricoltura, Sviluppo Rurale e Tutela dell'Ambiente - REGIONE PUGLIA - SEZIONE RISORSE IDRICHE

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

TIPOLOGIA CORPO IDRICO	CORPO IDRICO SUPERFICIALE	STAZIONI DI MONITORAGGIO
LAGHI/INVASI	Marana Capacciotti	LA_CA01_RF
	Torre Bianca/Capaccio (Celone)	LA_CE01_RF
	Cillarese	LA_CI01_RF
	Locone (Monte Melillo)	LA_LO01_RF
	Occhito (Fortore)	LA_OC01_RF
	Serra del Corvo (Basentello)	LA_SC01_RF
ACQUE MARINO-COSTIERE	Foce Carapelle-Foce Aloisa	MC_AL01_RF
	Bari-S. Vito (Polignano)	MC_BA01_RF
	Molfetta-Bari	MC_BB01_RF
	Barletta-Bisceglie	MC_BI01_RF
		MC_BI03N_RF
	Cerano-Le Cesine	MC_CC01_RF
	Le Cesine-Alimini	MC_CE01_RF
	Foce Aloisa-Margherita di Savoia	MC_CM01_RF
	Torre Columena-Torre dell'Ovo	MC_CP01_RF
	Alimini Grande	MC_FA_01
	Chieuti-Foce Fortore	MC_FF01_RF
	Chiatona-Foce Lato	MC_FL01_RF
	Foce Fiume Tara-Chiatona	MC_FP01_RF
	Monopoli-Torre Canne	MC_FR01_RF
		VM_SV01_RF
	Foce Fortore-Foce Schiapparo	MC_FS01_RF
	Foce Capoiale-Foce Varano	MC_FV01_RF
	Torre dell'Ovo-Capo S. Vito	MC_LS01_RF
	Bari-S. Vito (Polignano)	MC_MA01_RF
	Vieste-Mattinata	MC_MI01_RF
	Bisceglie-Molfetta	MC_ML01_RF
	Mattinata-Manfredonia	MC_MN01_RF
		MC_MT01_RF
	S. Vito (Polignano)-Monopoli	MC_MO01_RF
	Limite sud AMP Porto Cesareo - Torre Colimena	MC_PC01_RF
	Foce Varano-Peschici	MC_PE01_RF
		MC_PE03N_RF
	Punta Rondinella-Foce Fiume Tara	MC_PN01_RF
	Limite sud AMP Torre Guaceto-Brindisi	MC_PP01_RF
		MC_PP03N_RF
	Otranto-S. Maria di Leuca	MC_PR01_RF
		MC_TC01_RF
	Cerano-Le Cesine	MC_SC01_RF
	Ugento-Limite sud AMP Porto Cesareo	MC_SM01_RF
		MC_SM03N_RF
	Capo S. Vito-Punta Rondinella	MC_SV01_RF
	Torre S. Gregorio-Ugento	MC_UG01_RF
	Peschici-Vieste	MC_VI01_RF
	Torre Canne-Limite nord AMP Torre Guaceto	MC_VL01_RF

REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

Rete Fitosanitari
Stazioni monitoraggio Corpi Idrici Sotterranei



REGIONE PUGLIA
DIPARTIMENTO AGRICOLTURA, SVILUPPO RURALE E AMBIENTALE
- SEZIONE RISORSE IDRICHE -

TIPOLOGIA ACQUIFERO	ACQUIFERO	CORPO IDRICO SOTTERRANEO	STAZIONI DI MONITORAGGIO
CARSICO	FALDA CARSICA DEL GARGANO	Gargano centro-orientale	PN000134
			PS001103
			SN001116
		Gargano meridionale	PS000133
			SN300115
		Gargano settentrionale	SN001110
			SN001111
			SN001115
CARSICO	FALDA SOSPESA DI VICO ISCHITELLA	Falda sospesa di Vico Ischitella	SN401653
CARSICO	FALDA CARSICA DELLE MURGE	Alta Murgia	PN000124
			PN000204
			PN001003
			PN001007
			PN001009
			PN001010
			PN001013
			PN001015
			PN001016
			PN001018
			PN001188
			PN201000
			PN201074
			PS000114
			PS000172
			PS000174
			PS000182
		Murgia bradanica	PN001011
			PN001030
			PN001160
			PN401030
		Murgia costiera	PN000104
			PN001004
			PN201051
			PN201055
			PS000163
			SN001032
		Murgia tarantina	PN001175
			PR000201
			PS000159
			SN001183

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TIPOLOGIA ACQUIFERO	ACQUIFERO	CORPO IDRICO SOTTERRANEO	STAZIONI DI MONITORAGGIO
CARSICO	FALDA CARSICA DEL SALENTO	Salento centro-meridionale	PN000196
			PN001119
			PN001121
			PN001123
			PN001129
			PN001132
			PN001134
			PN001135
			PN001138
			PN001144
			PN001147
			PN001190
			PN001193
			PN201205
			PN401036
			PN401649
			PR000154
			PS000220
		Salento centro-settentrionale	PN001161
			PS000126
			PS000179
			PS000197
		Salento costiero	PN000123
			PN000145
			PN000146
			PN000150
			PN000193
			PN001125
			PN001126
			PN001164
			PN001192
			PN401660
			PS000121
			PS000140
			PS201120
			SN001182
CARSICO	FALDA MIOCENICA DEL SALENTO CENTRO MERIDIONALE	Salento miocenico centro-meridionale	PN401012
			PN401013
CARSICO	FALDA MIOCENICA DEL SALENTO CENTRO ORIENTALE	Salento miocenico centro-orientale	PN001124
			PN401041
DETRITICO	FALDA POROSA SUPERFICIALE DEL TAVOLIERE	Rive del Lago di Lesina	PN201017
		Tavoliere centro-meridionale	PN001211
			PN201039
			PN201041
			PN201043
		Tavoliere nord-occidentale	PN001069
			PN001070
			PN001094
			PN001102
		Tavoliere nord-orientale	PN001207
			PN201018
			PN201020
		Tavoliere sud-orientale	PN001052
			PN001075
			PN001076
			PN201023
			PN201026
			PN201028
			PN201030

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			PN201032
TIPOLOGIA ACQUIFERO	ACQUIFERO	CORPO IDRICO SOTTERRANEO	STAZIONI DI MONITORAGGIO
DETRITICO	FALDA DETRITICA DI BARLETTA	Barletta	PN401019
			PN401020
			PN401022
DETRITICO	FALDA POROSA SUPERFICIALE DELL'ARCO IONICO TARANTINO OCCIDENTALE	Arco Ionico-tarantino occidentale	PN201075
			PN201076
			PN201079
			PN201082
			PN201084
			PN201086
			PN201088
			PN201094
			PN201112
			PN201118
DETRITICO	FALDA POROSA SUPERFICIALE DELL'ARCO IONICO TARANTINO ORIENTALE	Arco Ionico-tarantino orientale	PN401007
			PN401008
			PN401009
DETRITICO	FALDA DETRITICA DELLA PIANA BRINDISINA	Piana brindisina	PN401003
			PN401004
			PN401005
			PN401044
DETRITICO	ACQUIFERO DELL'AREA LECCESE SETTENTRIONALE	Salento leccese settentrionale	PN401011
DETRITICO	ACQUIFERO DELL'AREA LECCESE ADRIATICA	Salento leccese costiero Adriatico	PN401028
DETRITICO	ACQUIFERO DELL'AREA LECCESE CENTRO SALENTO	Salento leccese centrale	PN401018
DETRITICO	ACQUIFERO DELL'AREA LECCESE SUD OCCIDENTALE	Salento leccese sud-occidentale	PN401015
			PN401016
			PN401017
ALLUVIONALE	FALDA ALLUVIONALE DEL T. SACCIONE	T. Saccione	PN201047
ALLUVIONALE	FALDA ALLUVIONALE DEL F. FORTORE	F. Fortore	PN201046
			PN201048
ALLUVIONALE	FALDA ALLUVIONALE DEL F. OFANTO	F. Ofanto	PN201095
			PN201096
			PN401658
			PN201098

Dipartimento Agricoltura, Sviluppo Rurale e Tutela dell'Ambiente REGIONE PUGLIA SEZIONE RISORSE IDRICHE

REGIONE PUGLIA
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Allegato 5
Tabelle di correlazione tra uso del suolo, impianti fotovoltaici e campi da golf con principi attivi da ricercare

REGIONE PUGLIA
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nome	coltura	2111	2112	2121	2123	221	222	223	231	241	242	243	244
(E.Z)-8-Dodecen-1-Il Acetato	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Il Acetato	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Olo	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Abamectina	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Acetamiprid	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Acrinathrin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Adoxophyes Orana Granulovirus	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Azadiractina	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Subtilis	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Beauveria Bassiana	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Beta-Ciflutrin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bicarbonato Di Potassio	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Boscalid	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Cyproconazol	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Buprofezin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Chlorantraniliprole	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Chlorpyrifos	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Deltamethrin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Mancozeb	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Miclobutanil	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Coniothyrium Minitans	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Cydia Pomonella Granulovirus	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Cyprodinil	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Tiram	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Diflufenican	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Emamectina Benzoato	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Etoxazole	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fenbuconazol	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fenhexamid	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fludioxonil	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fosfato Ferrico	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Gliphosate	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Imidacloprid	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Indoxacarb	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Isoxaben	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Metaldeide	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Olio Minerale Paraffinico	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Paecilomyces Lilacinus	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pendimethalin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Piretrine	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Polisolfuro Di Calcio	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Proteine Idrolizzate	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pyridaben	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pyriproxyfen	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Quizalofop-P-Etile	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Rame	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Spinetoram	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Spirodiclofen	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Spirotetramat	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Tau-Fluvalinate	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Tebuconazolo	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Thiacloprid	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Thiophanate-Methyl	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Asperellum	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Gamsii	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Harzianum	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---

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Trifloxystrobin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Triflumuron	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Zolfo	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Bupirimate	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Captano	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Clothianidin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Difenoconazol	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Etofenprox	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Hexythiazox	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fenpirazamina	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fluopyram	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Fluxapyroxad	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
NAD	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Oxifluorfen	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pirimicarb	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pyraclostrobin	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Pyraflufen Ethyl	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Quinoxyfen	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Spinosad	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Thiamethoxam	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Diquat	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Formetanato	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Glufosinate Ammonio	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Iprodione	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Cyhalothrin-Lambda	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Metiocarb	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Metossifenozide	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Oxadiazon	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Propiconazolo	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Triclopir	Albicocco	---	---	---	---	---	222	---	---	---	---	---	---
Acetamiprid	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Cypermethrin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Chlorantraniliprole	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Deltamethrin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Mancozeb	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
2.4-D	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Abamectina	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Azadiractina	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Bacillus T. Sub. Aizawai	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Bacillus T. Sub. Kurstaki	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Beauveria Bassiana	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Bifenazato	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Buprofezin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Carfentrazone-Ethyl	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Chlorpyrifos	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Clofentezine	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Coniothyrium Minitans	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Diclorprop-P	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Diflufenican	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Dimethoate	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Emamectina Benzoato	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Etoxazole	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Fenazaquin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Flazasulfuron	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Florasulam	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Fosfato Ferrico	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Gliphosate	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Imidacloprid	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Malation	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
MCPA	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Metalaxyl-M	Arancio	---	---	---	---	---	222	---	---	---	242	---	---

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Metaldeide	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Milbemectina	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Olio Di Arancio	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Olio Minerale Paraffinico	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Paecilomyces Lilacinus	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Pendimethalin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Penoxsulam	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Piretrine	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Proteine Idrolizzate	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Pyridaben	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Pyriproxyfen	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Quizalofop-P-Etile	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Rame	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Spirodiclofen	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Spirotetramat	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Tebufenozide	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Asperellum	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Gamsii	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Harzianum	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Zolfo	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Acido Gibberellico	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Alfa-Cypermethrin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Chlorpyrifos-Methyl	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Etofenprox	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Etoprofos	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Hexythiazox	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Flonicamid	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Fluazifop-P-Butile	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Oxifluorfen	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Pymetrozine	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Pyraclostrobin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Spinosad	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Tebufenpyrad	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Thiamethoxam	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Zeta-Cypermethrin	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Diquat	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Fluroxypir	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Fosetilalluminio	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Phosmet	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Glufosinate Ammonio	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Cyhalothrin-Lambda	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Metossifenozide	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Oxadiazon	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
Triclopir	Arancio	---	---	---	---	---	222	---	---	---	242	---	---
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Acetamiprid	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Cypermethrin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Cyproconazol	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Azoxystrobin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Chlorantraniliprole	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Deltamethrin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Metalaxyl	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Miclobutanil	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Coniothyrium Minitans	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Tiram	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
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Fosfato Ferrico	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Gliphosate	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Imidacloprid	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Indoxacarb	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Linuron	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Metalaxyl-M	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Metaldeide	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Metribuzin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Olio Minerale Paraffinico	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Paecilomyces Lilacinus	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Penconazol	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Pendimethalin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Piretrine	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Piridate	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Propaquizafop	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Propizamide	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Quizalofop Etile Isomero D	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Quizalofop-P-Etile	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Rame	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Tau-Fluvalinate	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Tebuconazolo	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Trichoderma Asperellum	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Trichoderma Gamsii	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Zolfo	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Acido Gibberellico	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Alfa-Cypermethrin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Etoprofos	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Fluazifop-P-Butile	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Fluopyram	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Oxifluorfen	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Pirimicarb	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Pyraclostrobin	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Pyraflufen Ethyl	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Quinoxyfen	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Spinosad	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Tetraconazole	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Triadimenol	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Cimoxanil	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Diquat	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Fosetilalluminio	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Cyhalothrin-Lambda	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Metazaclor	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
NAA	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Oxadiazon	Carciofo	---	---	2121	2123	---	---	---	---	---	---	---	---
Acetamiprid	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Cypermethrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Chlorantraniliprole	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Deltamethrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Mancozeb	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
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Azadiractina	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Azoxystrobin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Beauveria Bassiana	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Beta-Ciflutrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Boscalid	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---

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Coniothyrium Minitans	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Emamectina Benzoato	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Fosfato Ferrico	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Imidacloprid	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Indoxacarb	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Metalaxyl-M	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Metaldeide	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Napropamide	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Di Arancio	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Minerale Paraffinico	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Paecilomyces Lilacinus	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Pendimethalin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Piretrine	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Piridate	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Propamocarb	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Quizalofop Etile Isomero D	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Quizalofop-P-Etile	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Rame	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Sali Di Potassio Degli Acidi Grassi	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Tau-Fluvalinate	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Teflutrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Thiacloprid	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Asperellum	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Harzianum	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Zolfo	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Alfa-Cypermethrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Difenoconazol	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Etoprofos	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Pyraclostrobin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Spinosad	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Zeta-Cypermethrin	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Clopyralid	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Diquat	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Fosetilalluminio	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Iprodione	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Cyhalothrin-Lambda	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Metazaclor	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Metiocarb	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Oxadiazon	Cavolfiore	---	---	---	2123	---	---	---	---	---	---	---	---
Acetamiprid	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cypermethrin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Chlorantraniliprole	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Deltamethrin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Mancozeb	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Azadiractina	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Azoxystrobin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Beauveria Bassiana	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Beta-Ciflutrin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Boscalid	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Chlorpyrifos	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Coniothyrium Minitans	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Emamectina Benzoato	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fosfato Ferrico	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---

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Indoxacarb	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metalaxyl-M	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metaldeide	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Di Arancio	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Minerale Paraffinico	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Paecilomyces Lilacinus	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pendimethalin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Piretrine	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Piridate	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Propamocarb	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Propaquizafop	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Quizalofop-P-Etile	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Rame	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Sali Di Potassio Degli Acidi Grassi	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Thiacloprid	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Asperellum	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Harzianum	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Zolfo	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Difenoconazol	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Esfenvalerate	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pyraclostrobin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Spinosad	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Thiamethoxam	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Zeta-Cypermethrin	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Clopyralid	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Diquat	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fosetilalluminio	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Iprodione	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cyhalothrin-Lambda	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metazaclor	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metiocarb	Cavolo broccolo	---	---	---	2123	---	---	---	---	---	---	---	---
Acetamiprid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Chlorantraniliprole	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Deltamethrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Mancozeb	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metalaxyl	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metiram	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Miclobutanil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Propineb	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Tiram	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Abamectina	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Acrinathrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Ametoctradin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Ampelomyces Quisqualis	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Azadiractina	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Azoxystrobin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus Firmus	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Beauveria Bassiana	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Beta-Ciflutrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bicarbonato Di Potassio	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bifenazato	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---

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Buprofezin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Ciflufenamid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Clofentezine	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Coniothyrium Minitans	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cos-Oga	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cyprodinil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Dimethomorph	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Emamectina Benzoato	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Estratto D'Aglio	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Famoxadone	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fenbuconazol	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fenhexamid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fenpiroximate	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fludioxonil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fluopicolide	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fosfato Ferrico	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Helicoverpa Armigera Nucleopoliedrovirus	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Imidacloprid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Indoxacarb	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Isopyrazam	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Kresoxim-Methyl	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
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Lufenuron	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Alfa-Cypermethrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Bupirimate	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cyromazin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metalaxyl-M	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metaldeide	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cyazofamid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Difenoconazol	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Etoprofos	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Hexythiazox	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fenamifos	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fenpirazamina	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Di Arancio	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Olio Minerale Paraffinico	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Flonicamid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Paecilomyces Lilacinus	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Penconazol	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Penthiopyrad	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Piretrine	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
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Meptyldinocap	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metomil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pyridaben	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pyrimethanil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pyriproxyfen	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pythium Oligandrum	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Rame	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Sali Di Potassio Degli Acidi Grassi	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metrafenone	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Spiromesifen	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Spirotetramat	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Streptomyces K61	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Tau-Fluvalinate	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Tebuconazolo	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---

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Teflutrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pirimicarb	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Thiacloprid	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pymetrozine	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Pyraclostrobin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Spinosad	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Asperellum	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Atroviride	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Gamsii	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trichoderma Harzianum	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Trifloxystrobin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Tebufenpyrad	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Zolfo	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Tetraconazole	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Thiamethoxam	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Triadimenol	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Zeta-Cypermethrin	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Zoxamide	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cimoxanil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Clorotalonil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Diquat	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Fosetilalluminio	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Iprodione	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Cyhalothrin-Lambda	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Metiocarb	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Oxamil	Cetriolo	---	---	---	2123	---	---	---	---	---	---	---	---
Acetamiprid	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Cypermethrin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Deltamethrin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Mancozeb	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Miclobutanil	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Tiram	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Ziram	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
(E.Z)-8-Dodecen-1-Il Acetato	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Il Acetato	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Olo	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Acrinathrin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Adoxophyes Orana Granulovirus	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Azadiractina	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Subtilis	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Beauveria Bassiana	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Boscalid	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Buprofezin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Chlorpyrifos	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Coniothyrium Minitans	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Cyprodinil	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Diflufenican	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Acido Gibberellico	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fenbuconazol	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fenhexamid	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Captano	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Difenoconazol	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fludioxonil	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Etofenprox	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fosfato Ferrico	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fenpirazamina	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---

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Fluazifop-P-Butile	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Imidacloprid	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Indoxacarb	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Fluopyram	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Isoxaben	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
NAD	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Oxifluorfen	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Metaldeide	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Pirimicarb	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Pyraclostrobin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Pyraflufen Ethyl	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Olio Minerale Paraffinico	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Spinosad	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Paecilomyces Lilacinus	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Pendimethalin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Piretrine	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Thiamethoxam	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Polisolfuro Di Calcio	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Proteine Idrolizzate	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Pyriproxyfen	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Quizalofop-P-Etile	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Rame	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Spinetoram	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Spirotetramat	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Tebuconazolo	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Thiacloprid	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Thiophanate-Methyl	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Asperellum	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Gamsii	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Harzianum	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Trifloxystrobin	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Zolfo	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Diquat	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Dodina	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Phosmet	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Glufosinate Ammonio	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Iprodione	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Cyhalothrin-Lambda	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Metiocarb	Ciliegio	---	---	---	---	---	222	---	---	---	---	---	---
Acetamiprid	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Deltamethrin	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Mancozeb	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Abamectina	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Azadiractina	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Bacillus T. Sub. Aizawai	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Bacillus T. Sub. Kurstaki	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Beauveria Bassiana	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Bifenazato	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Buprofezin	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Carfentrazone-Ethyl	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Chlorpyrifos	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Clofentezine	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Coniothyrium Minitans	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Diclorprop-P	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Diflufenican	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Emamectina Benzoato	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Etoxazole	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Fenazaquin	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Flazasulfuron	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Florasulam	Clementino	---	---	---	---	---	222	---	---	---	242	---	---

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Fosfato Ferrico	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Gliphosate	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Imidacloprid	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Malation	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
MCPA	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Metalaxyl-M	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Metaldeide	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Olio Di Arancio	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Olio Minerale Paraffinico	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Paecilomyces Lilacinus	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Pendimethalin	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Penoxsulam	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Piretrine	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Proteine Idrolizzate	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Pyridaben	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Pyriproxyfen	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Quizalofop-P-Etile	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Rame	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Spirodiclofen	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Spirotetramat	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Tebufenozide	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Asperellum	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Gamsii	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Trichoderma Harzianum	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Zolfo	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Acido Gibberellico	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Alfa-Cypermethrin	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Chlorpyrifos-Methyl	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Etofenprox	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Etoprofos	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Hexythiazox	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Flonicamid	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Fluazifop-P-Butile	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
NAD	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Oxifluorfen	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Pymetrozine	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Spinosad	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Tebufenpyrad	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Thiamethoxam	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Diquat	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Fluroxypir	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Fosetilalluminio	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Phosmet	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Glufosinate Ammonio	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Cyhalothrin-Lambda	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Metossifenozide	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Oxadiazon	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Triclopir	Clementino	---	---	---	---	---	222	---	---	---	242	---	---
Acetamiprid	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bentazone	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bromoxinil	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cypermethrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cyproconazol	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Deltamethrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Dicamba	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mancozeb	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mecoprop	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Procloraz	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
2.4-D	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Azoxystrobin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Benzovindiflupyr	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244

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Beta-Ciflutrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bifenox	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bixafen	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bromuconazolo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Carfentrazone-Ethyl	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Chlorpyrifos	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cloquintocet-Mexyl	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clormequat	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Diclofop-Metile	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Diflufenican	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Dimethoate	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Epoxiconazolo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenoxaprop-P-Etile	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenpropidin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenpropimorf	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Florasulam	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
2.4-Db	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Alfa-Cypermethrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Amidosulfuron	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fosfato Ferrico	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Gliphosate	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Aminopiralid	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Iodosulfuron Methyl Sodium	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Isopyrazam	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Isoxaben	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clodinafop-Propargyl	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clorsulfuron	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
MCPA	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Difenoconazol	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mecoprop-P	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Esfenvalerate	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metaldeide	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metconazolo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metribuzin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Flutriafol	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pendimethalin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Picolinafen	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fluxapyroxad	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Imazamox	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Piretrine	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
c Metile	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Picoxystrobin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pinoxaden	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pirimicarb	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Prosulfocarb	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Prothioconazole	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Propoxycarbazone	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pyroxsulam	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Rame	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Spiroxamine	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Sulfosulfuron	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tau-Fluvalinate	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tebuconazolo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Teflutrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pyraclostrobin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Thiacloprid	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Thiophanate-Methyl	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tifensulfuron Metile	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tri-Allate	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tetraconazole	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Trichoderma Harzianum	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244

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Trifloxystrobin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Trinexapac-Ethyl	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tritosulfuron	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tribenuron Metile	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Zolfo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Zeta-Cypermethrin	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clopyralid	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clorotalonil	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clortoluron	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Flufenacet	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fluroxypir	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cyhalothrin-Lambda	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mesosulfuron-Metil	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Propiconazolo	Frumento	2111	2112	2121	---	---	---	---	231	---	---	243	244
Acetamiprid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Cypermethrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Chlorantraniliprole	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Deltamethrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Mancozeb	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metalaxyl	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metiram	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Tiram	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Abamectina	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Acrinathrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Ametoctradin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Amisulbrom	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Azadiractina	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Azoxystrobin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Bacillus Subtilis	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Bacillus T. Sub. Aizawai	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Bacillus T. Sub. Kurstaki	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Beauveria Bassiana	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Benfluralin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Boscalid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Buprofezin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Chlorpropham	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Chlorpyrifos	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Coniothyrium Minitans	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Cyprodinil	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Dimethomorph	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Emamectina Benzoato	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Estratto D'Aglio	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fenhexamid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fludioxonil	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fluopicolide	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fosfato Ferrico	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Helicoverpa Armigera Nucleopoliedrovirus	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Imidacloprid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Indoxacarb	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Laminarin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Lecanicillium Muscarium	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metaflumizone	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metalaxyl-M	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metaldeide	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---

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Olio Di Arancio	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Paecilomyces Lilacinus	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pendimethalin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Piretrine	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Propamocarb	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Propaquizafop	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Propizamide	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pyrimethanil	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pythium Oligandrum	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Quizalofop-P-Etile	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Rame	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Spirotetramat	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Spodoptera Littoralis Nucleopoliedrovirus	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Streptomyces K61	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Tau-Fluvalinate	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Tebufenozide	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Teflutrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Thiacloprid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Trichoderma Asperellum	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Trichoderma Atroviride	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Trichoderma Gamsii	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Trichoderma Harzianum	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Trifloxystrobin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Zolfo	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Acido Gibberellico	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Alfa-Cypermethrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Difenoconazol	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Esfenvalerate	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Etofenprox	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Etoprofos	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fluazifop-P-Butile	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fluopyram	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Folpet	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Mandipropamid	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metomil	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pirimicarb	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pymetrozine	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Pyraclostrobin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Spinosad	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Thiamethoxam	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Tolclofos-Methyl	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Zeta-Cypermethrin	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Cicloxidim	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Cimoxanil	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Diquat	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fenamidone	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Formetanato	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Fosetilalluminio	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Iprodione	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Iprovalicarb	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Cyhalothrin-Lambda	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Metossifenozide	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Oxadiazon	Lattuga	---	---	2121	2123	---	---	---	---	---	242	---	---
Acetamiprid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cypermethrin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Chlorantraniliprole	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Deltamethrin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Mancozeb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metalaxyl	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metiram	Melone	---	---	---	2123	---	---	---	---	241	242	---	---

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Miclobutanil	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Tiram	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Abamectina	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Ametoctradin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Ampelomyces Quisqualis	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Azadiractina	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Azoxystrobin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Firmus	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Aizawai	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Beauveria Bassiana	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bicarbonato Di Potassio	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bifenazato	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Boscalid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Ciflufenamid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Clofentezine	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Coniothyrium Minitans	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cos-Oga	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Bupirimate	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Dimethomorph	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cyromazin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Emamectina Benzoato	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Estratto D'Aglio	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cyazofamid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Difenoconazol	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Etoxazole	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Etofenprox	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Famoxadone	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Etoprofos	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Hexythiazox	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fenbuconazol	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fenamifos	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fluopicolide	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Flonicamid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fluopyram	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Mandipropamid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fosfato Ferrico	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Helicoverpa Armigera Nucleopoliedrovirus	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Imidacloprid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Indoxacarb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Meptyldinocap	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metomil	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Isopyrazam	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Kresoxim-Methyl	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metrafenone	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Lecanicillium Muscarium	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
NAD	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Pirimicarb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Maneb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
MCPA	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Pymetrozine	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Pyraclostrobin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metalaxyl-M	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Metaldeide	Melone	---	---	---	2123	---	---	---	---	241	242	---	---

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Quinoxyfen	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Spinosad	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Tebufenpyrad	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Tetraconazole	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Thiamethoxam	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Di Arancio	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Minerale Paraffinico	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Triadimenol	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Fumosoroseus Ceppo Fe 9901	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Lilacinus	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Penconazol	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Pendimethalin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Piretrine	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Zeta-Cypermethrin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Propamocarb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Propaquizafop	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Zoxamide	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Quizalofop Etile Isomero D	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Quizalofop-P-Etile	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Rame	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Sali Di Potassio Degli Acidi Grassi	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Spiromesifen	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Spirotetramat	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Streptomyces K61	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Tau-Fluvalinate	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Tebuconazolo	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Teflutrin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Thiacloprid	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Thiophanate-Methyl	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Asperellum	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Atroviride	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Gamsii	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Harzianum	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Trifloxystrobin	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Zolfo	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cimoxanil	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Clorotalonil	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Diquat	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fenamidone	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Formetanato	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Fosetilalluminio	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Iprodione	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Iprovalicarb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Cyhalothrin-Lambda	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Oxamil	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Propineb	Melone	---	---	---	2123	---	---	---	---	241	242	---	---
Acetamiprid	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Cypermethrin	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Deltamethrin	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Mancozeb	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
(E.Z)-2.13-Ottadecadien-1-Il Acetato	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
(E.Z)-3.13-Ottadecadienyl Acetato	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Bacillus T. Sub. Aizawai	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Beauveria Bassiana	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Chlorpyrifos	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Diflufenican	Olivo	---	---	---	---	---	---	223	---	241	242	---	---

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Spinetoram	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Coniothyrium Minitans	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Dimethoate	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Fenoxicarb	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Fosfato Ferrico	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Gliphosate	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Imidacloprid	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
MCPA	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Olio Minerale Paraffinico	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Paecilomyces Lilacinus	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Penoxsulam	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Azadiractina	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Proteine Idrolizzate	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Buprofezin	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Carfentrazone-Ethyl	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Pyriproxyfen	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Rame	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Flazasulfuron	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Florasulam	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Tebuconazolo	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Piretrine	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Trichoderma Asperellum	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Trichoderma Gamsii	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Trifloxystrobin	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Zolfo	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Difenoconazol	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Esfenvalerate	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Etefon	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Fluazifop-P-Butile	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
NAD	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Oxifluorfen	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Pyraclostrobin	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Pyraflufen Ethyl	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Spinosad	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Tribenuron Metile	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Clortoluron	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Diquat	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Dodina	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Fluroxypir	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Phosmet	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Glufosinate Ammonio	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Cyhalothrin-Lambda	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
NAA	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Oxadiazon	Olivo	---	---	---	---	---	---	223	---	241	242	---	---
Bromoxinil	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cypermethrin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cyproconazol	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Deltamethrin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Dicamba	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mancozeb	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mecoprop	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Procloraz	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
2.4-Db	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Alfa-Cypermethrin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Amidosulfuron	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clorsulfuron	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Esfenvalerate	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Flutriafol	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fluxapyroxad	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metsulfuron Metile	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Picoxystrobin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244

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Pinoxaden	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pirimicarb	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pyraclostrobin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tetraconazole	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tribenuron Metile	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
2.4-D	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Azoxystrobin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Benzovindiflupyr	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bifenox	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Bixafen	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Carfentrazone-Ethyl	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Chlorpyrifos	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cloquintocet-Mexyl	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clormequat	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Diclofop-Metile	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Diflufenican	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Epoxiconazolo	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenoxaprop-P-Etile	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenpropidin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fenpropimorf	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Florasulam	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fosfato Ferrico	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Gliphosate	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Isopyrazam	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Isoxaben	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
MCPA	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Mecoprop-P	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metaldeide	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metconazolo	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Metribuzin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Pendimethalin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Picolinafen	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clopyralid	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Piretrine	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clorotalonil	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Clortoluron	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Flufenacet	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Prosulfocarb	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Prothioconazole	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Fluroxypir	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Rame	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Spiroxamine	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tau-Fluvalinate	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tebuconazolo	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Teflutrin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Cyhalothrin-Lambda	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Thiacloprid	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Thiophanate-Methyl	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tifensulfuron Metile	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tri-Allate	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Propiconazolo	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Trifloxystrobin	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Trinexapac-Ethyl	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Tritosulfuron	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Zolfo	Orzo	2111	2112	2121	---	---	---	---	231	---	---	243	244
Acetamiprid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Cypermethrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Cyproconazol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Chlorantraniliprole	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Deltamethrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Mancozeb	Pesco	---	---	---	---	---	222	---	---	---	---	---	---

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Miclobutanil	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Tiram	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Ziram	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Acequinocil	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Alfa-Cypermethrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bupirimate	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Captano	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Chlorpyrifos-Methyl	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Clothianidin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Difenoconazol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Ditianon	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Etofenprox	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Hexythiazox	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fenpirazamina	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Flonicamid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fluazifop-P-Butile	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fluopyram	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Flutriafol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fluxapyroxad	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
NAD	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Oxifluorfen	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(E.Z)-8-Dodecen-1-Il Acetato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Il Acetato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(E)-5-Decen-1-Olo	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(E)-8-Dodecen-1-Il Acetato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(Z)-8-Dodecen-1-Il Acetato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
(Z)-8-Dodecen-1-Olo	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Abamectina	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pirimicarb	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pyraclostrobin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Acibenzolar-S-Methyl	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Acrinathrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Adoxophyes Orana Granulovirus	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pyraflufen Ethyl	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Azadiractina	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus Subtilis	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Aizawai	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bacillus T. Sub. Kurstaki	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Beauveria Bassiana	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Beta-Ciflutrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Bicarbonato Di Potassio	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Boscalid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Quinoxyfen	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Buprofezin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Spinosad	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Carfentrazone-Ethyl	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Chlorpyrifos	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Tebufenpyrad	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Tetraconazole	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Thiamethoxam	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Zeta-Cypermethrin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Coniothyrium Minitans	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Cydia Pomonella Granulovirus	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Cyprodinil	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Diflufenican	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Emamectina Benzoato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Etoxazole	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fenbuconazol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fenhexamid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---

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Fenoxicarb	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fludioxonil	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Fosfato Ferrico	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Gliphosate	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Imidacloprid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Indoxacarb	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Isoxaben	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Metaldeide	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Olio Di Arancio	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Olio Minerale Paraffinico	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Paclobutrazol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Paecilomyces Lilacinus	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Penconazol	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pendimethalin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Piretrine	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Polisolfuro Di Calcio	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Proteine Idrolizzate	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pyridaben	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Pyriproxyfen	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Quizalofop-P-Etile	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Rame	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Sali Di Potassio Degli Acidi Grassi	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Spinetoram	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Spirodiclofen	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Spirotetramat	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Tau-Fluvalinate	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Tebuconazolo	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Thiacloprid	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Thiophanate-Methyl	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Asperellum	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Gamsii	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Harzianum	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Trifloxystrobin	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Triflumuron	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Zolfo	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Clorotalonil	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Diquat	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Dodina	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Formetanato	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Phosmet	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Glufosinate Ammonio	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Iprodione	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Cyhalothrin-Lambda	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Metiocarb	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Metossifenozide	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
NAA	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Oxadiazon	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Propiconazolo	Pesco	---	---	---	---	---	222	---	---	---	---	---	---
Acetamiprid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cypermethrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cyproconazol	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Chlorantraniliprole	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Deltamethrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Mancozeb	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metalaxyl	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metiram	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Miclobutanil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Tiram	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Acequinocil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Acido Gibberellico	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---

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Aclonifen	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Alfa-Cypermethrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bupirimate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Captano	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Chlorpyrifos-Methyl	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cyromazin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cyazofamid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Difenoconazol	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Ditianon	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Esfenvalerate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Etefon	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Etofenprox	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Etoprofos	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Hexythiazox	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fenamifos	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fenpirazamina	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Flonicamid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fluopyram	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Flutriafol	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Folpet	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Mandipropamid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metolachlor(s-metolaclor)	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metomil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metrafenone	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
NAD	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Pirimicarb	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Pymetrozine	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Pyraclostrobin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Spinosad	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Tebufenpyrad	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Tetraconazole	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Thiamethoxam	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Triadimenol	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
(E)-11-Tetradecen-1-Il Acetato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
(Z)-11-Tetradecen-1-Il Acetato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Abamectina	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Acibenzolar-S-Methyl	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Zeta-Cypermethrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Zoxamide	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Acrinathrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Ametoctradin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Amisulbrom	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Ampelomyces Quisqualis	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Azadiractina	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Azoxystrobin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Firmus	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Subtilis	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Aizawai	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Beauveria Bassiana	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Benalaxil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Benalaxil-M	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Benfluralin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bentiavalicarb	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Beta-Ciflutrin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---

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Bicarbonato Di Potassio	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Bifenazato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Boscalid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Buprofezin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Chlorpyrifos	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Ciflufenamid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cletodim	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Clofentezine	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Coniothyrium Minitans	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cos-Oga	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Cyprodinil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Dimethoate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Dimethomorph	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Emamectina Benzoato	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Estratto D'Aglio	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Etoxazole	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Famoxadone	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fenhexamid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fenpiroximate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fluazinam	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fludioxonil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fosfato Ferrico	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Fosthiazate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Gliphosate	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Helicoverpa Armigera Nucleopoliedrovirus	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Imazalil	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Imidacloprid	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Indoxacarb	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Isopyrazam	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Lecanicillium Muscarium	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Lufenuron	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Maneb	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
MCPA	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Mepanipyrim	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metaflumizone	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metalaxyl-M	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metaldeide	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Metribuzin	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Napropamide	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Di Arancio	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Minerale Paraffinico	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Fumosoroseus Ceppo Fe 9901	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Lilacinus	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
Penconazol	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
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NAA	Pomodoro	---	---	---	2123	---	---	---	---	241	242	---	---
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Cyproconazol	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Deltamethrin	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Mancozeb	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Miclobutanil	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Tiram	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Fluazifop-P-Butile	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Bacillus T. Sub. Kurstaki	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Beauveria Bassiana	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Boscalid	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Buprofezin	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Fenhexamid	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Fludioxonil	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Gliphosate	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Imidacloprid	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Metaldeide	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Paclobutrazol	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Piretrine	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Diquat	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Phosmet	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Glufosinate Ammonio	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Pyridaben	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Pyriproxyfen	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Rame	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Spinetoram	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Iprodione	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Spirotetramat	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Tebuconazolo	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Cyhalothrin-Lambda	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Thiacloprid	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Thiophanate-Methyl	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Metiocarb	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Asperellum	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Gamsii	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Trichoderma Harzianum	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Trifloxystrobin	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Triflumuron	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Oxadiazon	Susino	---	---	---	---	---	222	---	---	---	---	---	---
Zolfo	Susino	---	---	---	---	---	222	---	---	---	---	---	---
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Chlorantraniliprole	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Mancozeb	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Metalaxyl	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Metiram	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Miclobutanil	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Tiram	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Acido Gibberellico	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Cyazofamid	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Ditianon	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Etofenprox	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Fenpirazamina	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Fluazifop-P-Butile	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
(E.Z)-7.9-Dodecadien-1-Il Acetato	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Abamectina	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Fluxapyroxad	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Folpet	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Acido Pelargonico	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Acrinathrin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Mandipropamid	Vite ad uva da	---	---	---	---	221	---	---	---	241	242	---	---

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Amisulbrom	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Ampelomyces Quisqualis	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Aureobasidium Pullulans	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Azadiractina	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Azoxystrobin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bacillus Subtilis	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bacillus T. Sub. Aizawai	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Beauveria Bassiana	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Benalaxil	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Benalaxil-M	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bentiavalicarb	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Beta-Ciflutrin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Bicarbonato Di Potassio	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Boscalid	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Buprofezin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Carfentrazone-Ethyl	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Chlorpyrifos	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Oxifluorfen	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Ciflufenamid	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Pyraclostrobin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Pyraflufen Ethyl	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Quinoxyfen	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Spinosad	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Coniothyrium Minitans	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Tebufenpyrad	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Cyprodinil	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---

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Thiamethoxam	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Dimethomorph	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Zeta-Cypermethrin	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Zoxamide	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Dodecil Acetato	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Emamectina Benzoato	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Etoxazole	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Paclobutrazol	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Paecilomyces Lilacinus	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
Penconazol	Vite ad uva da tavola	---	---	---	---	221	---	---	---	241	242	---	---
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Folpet	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Quinoxyfen	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Spinosad	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Ampelomyces Quisqualis	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Aureobasidium Pullulans	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Bacillus T. Sub. Aizawai	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Beauveria Bassiana	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Kresoxim-Methyl	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Laminarin	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Maneb	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Metalaxyl-M	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
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Pyriproxyfen	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Pythium Oligandrum	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Iprodione	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Quizalofop-P-Etile	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Rame	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Sali Di Potassio Degli Acidi Grassi	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Spinetoram	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Iprovalicarb	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Spirodiclofen	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Spirotetramat	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Spiroxamine	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Tau-Fluvalinate	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Tebuconazolo	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Tebufenozide	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Cyhalothrin-Lambda	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Metiocarb	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Metossifenozide	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Thiophanate-Methyl	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Timolo	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
NAA	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Oxadiazon	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Trichoderma Asperellum	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Trichoderma Gamsii	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Trichoderma Harzianum	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Trifloxystrobin	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Valifenalate	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Propiconazolo	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Zolfo	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---

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Propineb	Vite ad uva da vino	---	---	---	---	221	---	---	---	241	242	---	---
Acetamiprid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Chlorantraniliprole	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Deltamethrin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Mancozeb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Metiram	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Miclobutanil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Tiram	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Acido Gibberellico	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bupirimate	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cyromazin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Clomazone	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cyazofamid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Difenoconazol	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Etoprofos	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Hexythiazox	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fenamifos	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fenpirazamina	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Flonicamid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fluopyram	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Mandipropamid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Meptyldinocap	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Metomil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Metrafenone	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
NAD	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pirimicarb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pymetrozine	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pyraclostrobin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Quinoxyfen	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Spinosad	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Tebufenpyrad	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Tetraconazole	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Thiamethoxam	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Triadimenol	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Zoxamide	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.11-Tetradecadien-1-Il Acetato	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
(Z.E)-9.12-Tetradecadien-1-Il Acetato	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Abamectina	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Acrinathrin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Ametoctradin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Ampelomyces Quisqualis	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Azadiractina	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Azoxystrobin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Amyloliquefaciens Sbs. Plantarum	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus Firmus	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Aizawai	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bacillus T. Sub. Kurstaki	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Beauveria Bassiana	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bicarbonato Di Potassio	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Bifenazato	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Boscalid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Buprofezin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Ciflufenamid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Coniothyrium Minitans	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cos-Oga	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cyprodinil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Dimethomorph	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Emamectina Benzoato	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---

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Estratto D'Aglio	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Famoxadone	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fenbuconazol	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fenhexamid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fludioxonil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fosfato Ferrico	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Helicoverpa Armigera Nucleopoliedrovirus	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Imidacloprid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Indoxacarb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Isopyrazam	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Kresoxim-Methyl	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Lecanicillium Muscarium	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Lufenuron	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Metaldeide	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Di Arancio	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Olio Minerale Paraffinico	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Fumosoroseus Ceppo Fe 9901	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Paecilomyces Lilacinus	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Penconazol	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Piretrine	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Propamocarb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cimoxanil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pyrimethanil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pyriproxyfen	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Pythium Oligandrum	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Diquat	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Quizalofop Etile Isomero D	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Quizalofop-P-Etile	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Rame	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Sali Di Potassio Degli Acidi Grassi	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Fosetilalluminio	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Spiromesifen	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Spirotetramat	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Streptomyces K61	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Tau-Fluvalinate	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Tebuconazolo	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Iprodione	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Cyhalothrin-Lambda	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Thiacloprid	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Metiocarb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
NAA	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Oxamil	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Asperellum	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Atroviride	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Gamsii	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Trichoderma Harzianum	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Trifloxystrobin	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Zolfo	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---
Propineb	Zucchino	---	---	---	2123	---	---	---	---	241	242	---	---

Impianti fotovoltaici e campi da golf

Propamocarb, Metalaxyl, Pyraclostrobin, Procloraz, Iprodione, Propiconazolo, Tolclofos-Methyl, Pendimethalin, Mecoprop, Trichlopir, Fluroxypir, Dicamba, Oxifluorfen, Chlorpyrifos, Gliphosate, Deltamethrin

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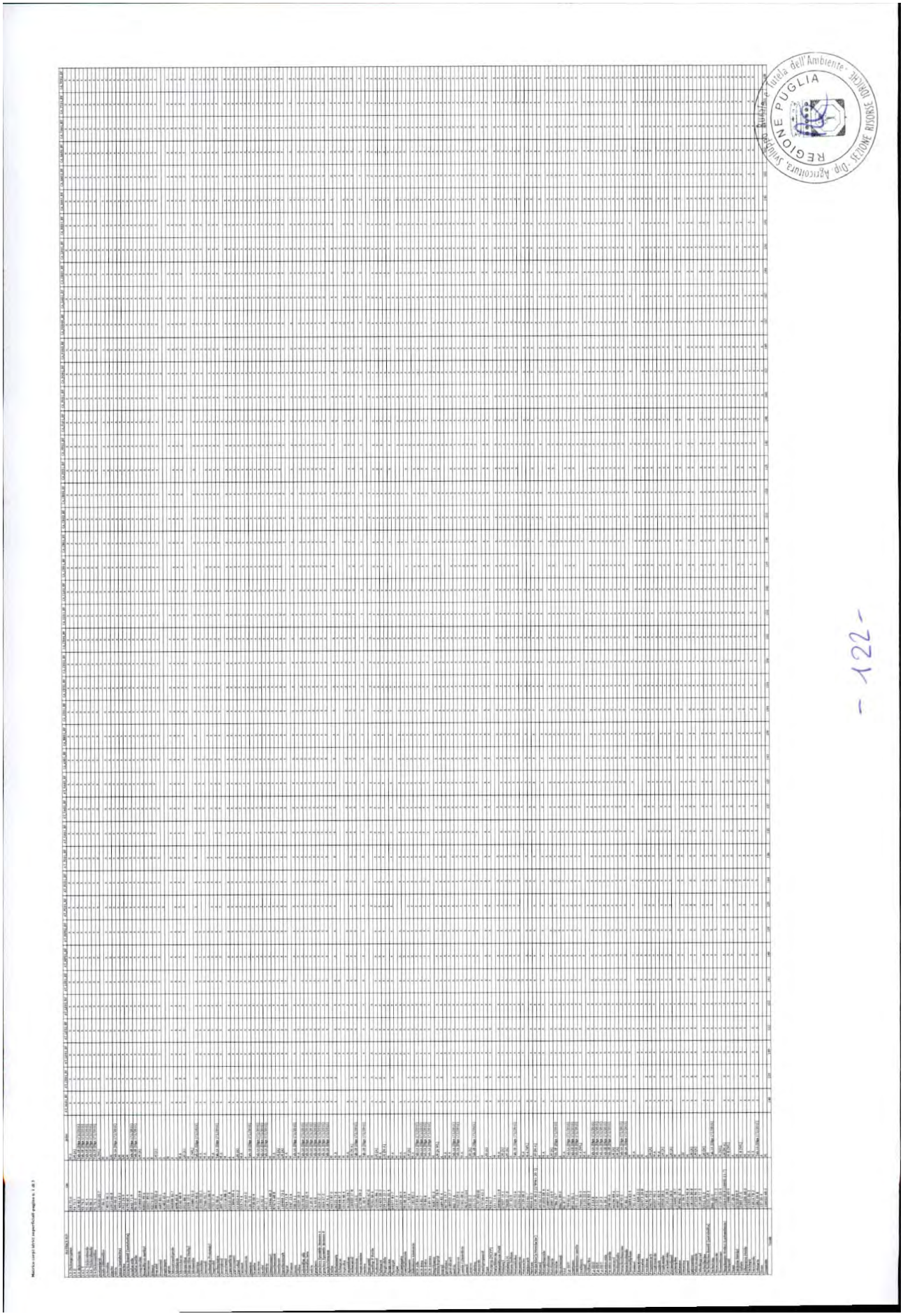
Allegato 6
Elenco sostanze attive rilevanti da ricercare in relazione alle stazioni di monitoraggio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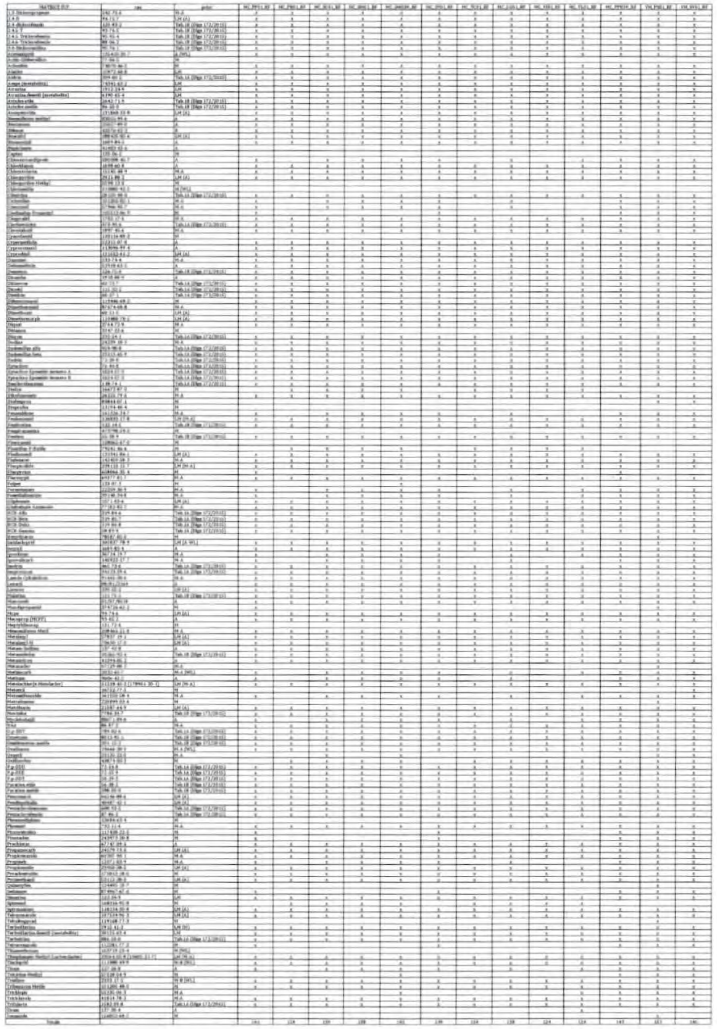
Matrice corpi idrici superficiali-pagina n. 3 di 3



Matrice corpi idrici sotterranei-pagina n. 1 di 5

MATRICE SOT	cas	prior	PN000104_RF
1,3-Dicloropropene	542-75-6	M-A	x
2,4-D	94-75-7	LM (A)	x
Acetamiprid	135410-20-7	A (WL)	x
Acido Gibberellico	77-06-5	M	
Aclonifen	74070-46-5	M	x
Alaclor	15972-60-8	LM	x
Aldrin	309-00-2	Tab.3 (Dlgs 30/2009 smi)	x
Ampa (metabolita)	74341-63-2	LM	x
Atrazina	1912-24-9	LM	x
Atrazina desetil-(metabolita)	6190-65-4	LM	x
Azoxystrobin	131860-33-8	LM (A)	x
Bensulfuron-methyl	83055-99-6	A	x
Bentazone	25057-89-0	A	x
Boscalid	188425-85-6	LM (A)	x
Bromoxinil	1689-84-5	A	x
Bupirimate	41483-43-6	A	
Captan	133-06-2	M	
Chlorantraniliprole	500008-45-7	A	
Chloridazon	1698-60-8	A	x
Chlorotoluron	15545-48-9	M-A	x
Chlorpyrifos	2921-88-2	LM (A)	x
Chlorpyrifos-Methyl	5598-13-0	M	x
Clothianidin	210880-92-5	M (WL)	
Cianazina	21725-46-2	Monitoraggi	
Cicloxidim	101205-02-1	M-A	
Cimoxanil	57966-95-7	M-A	
Clodinafop-Propargyl	105512-06-9	M	
Clopiralid	1702-17-6	M-A	x
Clorotalonil	1897-45-6	M-A	x
Cyazofamid	120116-88-3	M	
Cypermethrin	52315-07-8	A	x
Cyproconazol	113096-99-4	A	x
Cyprodinil	121552-61-2	LM (A)	x
Dazomet	533-74-4	M-A	x
Deltametrina	52918-63-5	A	x
Dicamba	1918-00-9	A	x
Dieldrin	60-57-1	Tab.3 (Dlgs 30/2009 smi)	x
Difenoconazol	119446-68-3	M	x
Dimethenamid	87674-68-8	M-A	x
Dimethoate	60-51-5	LM (A)	x
Dimethomorph	110488-70-5	LM (A)	x
Diquat	2764-72-9	M-A	x
Ditianon	3347-22-6	M	
Dodina	2439-10-3	M-A	x
Endrin	72-20-8	Tab.3 (Dlgs 30/2009 smi)	x
Etofos	16672-87-0	M	x
Ethofumesate	26225-79-6	M-A	x
Etofenprox	80844-07-1	M	
Etoprofos	13194-48-4	M	
Fenamidone	161326-34-7	M-A	
Fenhexamid	126833-17-8	LM (M-A)	x
Fenpirazamina	473798-59-3	M	
Flonicamid	158062-67-0	M	
Fluazifop-P-Butile	79241-46-6	M	x
Fludioxonil	131341-86-1	LM (A)	x
Flufenacet	142459-58-3	M-A	x
Fluopicolide	239110-15-7	LM (M-A)	x
Fluopyram	658066-35-4	M	
Fluroxypyr	69377-81-7	M-A	x
Folpet	133-07-3	M	
Formetanato	22259-30-9	M-A	
Fosetilalluminio	39148-24-8	M-A	
Gliphosate	1071-83-6	LM (A)	x
Glufosinate Ammonio	77182-82-2	M-A	x
HCH-Alfa	319-84-6	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Beta	319-85-7	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Delta	319-86-8	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Gamma	58-89-9	Tab.3 (Dlgs 30/2009 smi)	x
Hexythiazox	78587-05-0	M	
Imidacloprid	105827-78-9	LM (A-WL)	x
Ioxynil	1689-83-4	A	x
Iprodione	36734-19-7	M-A	
Iprovalicarb	140923-17-7	M-A	
Isodrin	465-73-6	Tab.3 (Dlgs 30/2009 smi)	x
Lambda-Cyhalothrin	91465-08-6	M-A	x
Lenacil	08/01/2164	A	x
Linuron	330-55-2	LM (A)	x
Mancozeb	01/07/8018	A	x
Mandipropamid	374726-62-2	M	x
Mcpa	94-74-6	LM (A)	x
Mecoprop (MCPP)	93-65-2	A	x
Meptyldinocap	131-72-6	M	
Mesosulfuron-Metil	208465-21-8	M-A	x
Metalaxyl	57837-19-1	LM (A)	x
Metalaxyl-M	70630-17-0	LM (A)	x
Metam-Sodium	137-42-8	A	x
Metamitron	41394-05-2	A	x
Metazaclor	67129-08-2	M-A	
Methiocarb	2032-65-7	M-A (WL)	x
Metiram	9006-42-2	A	
Metolachlor(s-Metolaclor)	51218-45-2 (178961-20-1)	LM (M-A)	x
Metomil	16752-77-5	M	
Metossifenozide	161050-58-4	M-A	x
Metrafenone	220899-03-6	M	x
Metribuzin	21087-64-9	LM (A)	x
Myclobutanil	88671-89-0	A	x
NAA	86-87-3	M-A	x
O,p-DDD	53-19-0	Monitoraggi	
O,p-DDE	3424-82-6	Monitoraggi	
Oxadiazon	19666-30-9	M-A (WL)	x
Oxamil	23135-22-0	M-A	
Oxifluorfen	42874-03-3	M	x
P,p-DDD	72-54-8	Tab.3 (Dlgs 30/2009 smi)	x
P,p-DDE	72-55-9	Tab.3 (Dlgs 30/2009 smi)	x
P,p-DDT	50-29-3	Tab.3 (Dlgs 30/2009 smi)	x
Penconazol	66246-88-6	LM (A)	x
Pendimethalin	40487-42-1	LM (A)	x
Phenmedipham	13684-63-4	M	
Phosmet	732-11-6	M-A	x
Picoxystrobin	117428-22-5	M	
Pinoxaden	243973-20-8	M	
Propamocarb	24579-73-5	LM (A)	x
Propiconazole	60207-90-1	M-A	x
Propineb	12071-83-9	M-A	
Propizamide	23950-58-5	LM (A)	x
Pyraclostrobin	175013-18-0	M	x
Pyrimethanil	53112-28-0	LM (A)	x
Quinoxyfen	124495-18-7	M	
Sedaxane	874967-67-6	M	
Simazina	122-34-9	LM	x
Spinosad	168316-95-8	M	x
Spiroxamine	118134-30-8	LM (A)	x
Tebuconazole	107534-96-3	LM (A)	x
Tebufenpyrad	119168-77-3	M	x
Terbutilazine	5915-41-3	LM (M)	x
Terbutilazina desetil-(metabolita)	30125-63-4	LM	x
Tetraconazole	112281-77-3	M	
Thiamethoxam	153719-23-4	M (WL)	
Thiophanate-Methyl (carbendazim)	23564-05-8 (10605-21-7)	LM (M-A)	x
Tiacloprid	111988-49-9	M-B (WL)	x
Tiram	137-26-8	A	
Tolclofos-Methyl	57018-04-9	M	
Triallate	2303-17-5	M-B (WL)	x
Tribenuron Metile	101200-48-0	M	x
Triclopyr	55335-06-3	M-A	
Triciclazolo	41814-78-2	M-A	x
Ziram	137-30-4	A	
Zoxamide	156052-68-5	M	
Totale			131

Totale	PN000104_RF	PN000123_RF	PN000124_RF	PN000134_RF	PN000145_RF	PN000146_RF	PN000150_RF	PN000193_RF	PN000196_RF	PN000204_RF	PN001003_RF	PN001004_RF	PN001007_RF	PN001009_RF	PN001010_RF	PN001011_RF	PN001013_RF	PN001015_RF	PN001016_RF	PN001018_RF	PN001030_RF	PN001052_RF	PN001069_RF	PN001070_RF	PN001075_RF	PN001076_RF	PN001094_RF	PN001102_RF	PN001119_RF	PN001121_RF	PN001123_RF
Totale	131	144	149	127	142	155	127	129	125	142	154	155	155	152	138	137	140	140	136	140	135	156	152	155	154	149	154	[illegible]	[illegible]	141	140

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MATRICE SOT	cas	pchec	PN001124_RF	PN001125_RF	PN001126_RF	PN001129_RF	PN001132_RF	PN001134_RF	PN001135_RF	PN001138_RF	PN001144_RF	PN001147_RF	PN001160_RF	PN001161_RF	PN001164_RF	PN001175_RF	PN001188_RF	PN001190_RF	PN001192_RF	PN001193_RF	PN001207_RF	PN001211_RF	PN201000_RF	PN201017_RF	PN201018_RF	PN201020_RF	PN201023_RF	PN201024_RF	PN201028_RF	PN201030_RF	PN201032_RF	PN201039_RF	PN201041_RF
1,3-Dicloropropene	542-75-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-D	94-75-7	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Acetamiprid	135410-20-7	A (WL)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Acido Gibberellico	77-06-5	M																			x	x			x	x	x	x	x	x	x		x
Aclonifen	74070-46-5	M	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Alaclor	15972-60-8	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Aldrin	309-00-2	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ampa (metabolita)	74341-63-2	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Atrazina	1912-24-9	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Atrazina desetil (metabolita)	6190-65-4	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Azoxystrobin	131860-33-8	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Bensulfuron-methyl	83055-99-6	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Bentazone	25057-89-0	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Boscalid	188425-85-6	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Bromoxinil	1689-84-5	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Bupirimate	41483-43-6	A																															
Captan	133-06-2	M																															
Chlorantraniliprole	500008-45-7	A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chloridazon	1698-60-8	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chlorotoluron	15545-48-9	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chlorpyrifos	2921-88-2	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Chlorpyrifos-Methyl	5598-13-0	M																			x	x					x						
Chlotianidin	210880-92-5	M (WL)																															
Cianazina	21725-46-2	Monitoraggi								x																							
Cicloxidim	101205-02-1	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Cimoxanil	57966-95-7	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Clodinafop-Propargyl	105512-06-9	M								x			x			x				x	x	x		x	x	x	x	x	x	x	x	x	x
Clopiralid	1702-17-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Clorotalonil	1897-45-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Cyazofamid	120116-88-3	M											x																				
Cypermethrin	52315-07-8	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Cyproconazol	113096-99-4	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Cyprodinil	121552-61-2	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dazomet	533-74-4	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Deltamethrin	52918-63-5	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dicamba	1918-00-9	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dieldrin	60-57-1	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Difenoconazol	119446-68-3	M	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dimethenamid	87674-68-8	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dimethoate	60-51-5	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dimethomorph	110488-70-5	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Diquat	2764-72-9	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ditianon	3347-22-6	M																															
Dodina	2439-10-3	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x		x			x		x		x	
Endrin	72-20-8	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Etefon	16672-87-0	M	x	x	x	x	x	x	x		x	x		x	x		x	x	x				x										
Ethofumesate	26225-79-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Etofenprox	80844-07-1	M																			x	x			x	x	x	x	x	x	x		x
Etoprofos	13194-48-4	M																			x	x			x	x	x	x	x	x	x		x
Fenamidone	161326-34-7	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Fenhexamid	126833-17-8	LM (M-A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Fenpirazamine	473798-59-3	M																															
Flonicamid	158062-67-0	M																															
Fluazifop-P-Butile	79241-46-6	M	x	x	x	x	x	x	x		x	x		x	x		x	x	x		x	x	x		x	x	x	x	x	x	x		x
Fludioxonil	131341-86-1	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Flufenacet	142459-58-3	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Fluopicolide	239110-15-7	LM (M-A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Fluopyram	658066-35-4	M																			x	x			x	x	x	x	x	x	x		x
Fluroxypyr	69377-81-7	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Folpet	133-07-3	M																			x	x			x	x	x	x	x	x	x		x
Formetanato	22259-30-9	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Fosetil alluminio	39148-24-8	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Gliphosate	1071-83-6	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Glufosinate Ammonio	77182-82-2	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x		x	x	x	x
HCH-Alfa	319-84-6	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HCH-Beta	319-85-7	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HCH-Delta	319-86-8	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HCH-Gamma	58-89-9	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Hexythiazox	78587-05-0	M																															
Imidacloprid	105827-78-9	LM (A-WL)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ioxynil	1689-83-4	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Iprodione	36734-19-7	M-A		x			x	x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Iprovalicarb	140923-17-7	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Isodrin	465-73-6	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Lamda-Cyhalothrin	91465-08-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Lenacil	08/01/2164	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Linuron	330-55-2	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Mancozeb	01/07/8018	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Mandipropamid	374726-62-2	M																			x	x			x	x	x	x	x	x	x		x
Mcpa	94-74-6	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Mecoprop (MCPP)	93-65-2	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Meptyldinocap	131-72-6	M																															
Mesosulfuron-Metil	208465-21-8	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metalaxyl	57837-19-1	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metalaxyl-M	70630-17-0	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metam-Sodium	137-42-8	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metamitron	41394-05-2	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metazaclor	67129-08-2	M-A																			x	x			x	x	x	x	x	x	x		x
Methiocarb	2032-65-7	M-A (WL)		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x		x			x	x	x	x
Metiram	9006-42-2	A		x				x	x	x	x		x	x	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x
Metolachlor(s-Metolaclor)	51218-45-2 (178961-20-1)	LM (M-A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metomil	16752-77-5	M																			x	x			x	x	x	x	x	x	x		x
Metossifenozide	161050-58-4	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Metrafenone	220899-03-6	M											x																				
Metribuzin	21087-64-9	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Myclobutanil	88671-89-0	A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NAA	86-87-3	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
O,p-DDD	53-19-0	Monitoraggi																	x														
O,p-DDE	3424-82-6	Monitoraggi																															
Oxadiazon	19666-30-9	M-A (WL)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Oxamil	23135-22-0	M-A		x					x	x									x	x													
Oxifluorfen	42874-03-3	M	x	x	x	x	x	x	x	x	x	x		x	x		x	x	x	x	x	x	x		x	x	x	x	x	x	x		x
P,p-DDD	72-54-8	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
P,p-DDE	72-55-9	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
P,p-DDT	50-29-3	Tab.3 (Dlgs 30/2009 smi)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Penconazol	66246-88-6	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Pendimethalin	40487-42-1	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Phenmedipham	13684-63-4	M																			x	x			x	x	x	x	x	x	x		x
Phosmet	732-11-6	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x		x			x		x		x	
Picoxystrobin	117428-22-5	M								x						x				x	x	x		x	x	x	x	x	x	x	x	x	x
Pinoxaden	243973-20-8	M								x						x				x	x	x		x	x	x	x	x	x	x	x	x	x
Propamocarb	24579-73-5	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Propiconazolo	60207-90-1	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Propineb	12071-83-9	M-A		x				x	x	x	x		x	x	x	x	x		x	x	x			x	x		x			x	x	x	x
Propizamide	23950-58-5	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Pyraclostrobin	175013-18-0	M	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Pyrimethanil	53112-28-0	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Quinoxyfen	124495-18-7	M																			x	x			x	x	x	x	x	x	x		x
Sedaxane	874967-67-6	M								x			x			x				x	x	x		x	x	x	x	x	x	x	x	x	x
Simazina	122-34-9	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Spinosad	168316-95-8	M	x	x	x	x	x	x	x		x	x		x	x		x	x	x		x	x	x		x	x	x	x	x	x	x	x	x
Spiroxamine	118134-30-8	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tebuconazole	107534-96-3	LM (A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tebufenpyrad	119168-77-3	M																			x	x			x	x	x	x	x	x	x		x
Terbutilazina	5915-41-3	LM (M)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Terbutilazina desetil (metabolita)	30125-63-4	LM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tetraconazole	112281-77-3	M								x			x			x				x	x	x			x	x	x	x	x	x	x	x	x
Thiamethoxam	153719-23-4	M (WL)																			x	x			x	x	x	x	x	x	x	x	x
Thiophanate-Methyl (carbendazim)	23564-05-8 (10605-21-7)	LM (M-A)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tiacloprid	111988-49-9	M-B (WL)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tiram	137-26-8	A		x				x	x	x	x		x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tolclofos-Methyl	57018-04-9	M					x	x	x	x	x									x	x	x			x	x	x	x	x	x	x	x	x
Triallate	2303-17-5	M-B (WL)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tribenuron Metile	101200-48-0	M	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Trichlopyr	55335-06-3	M-A					x	x	x	x	x		x		x	x				x	x	x	x										
Triciclazolo	41814-78-2	M-A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ziram	137-30-4	A											x		x	x							x										
Zoxamide	156052-68-5	M															x																
Totale			124	139	124	124	127	140	141	144	140	124	143	138	140	141	139	124	140	143	155	155	134	137	154	149	154	152	149	[illegible]	[illegible]	143	152

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MATRICE SOT	cas	prior	PN201043_RF
1,3-Dicloropropene	542-75-6	M-A	x
2,4-D	94-75-7	LM (A)	x
Acetamiprid	135410-20-7	A (WL)	x
Acido Gibberellico	77-06-5	M	x
Aclonifen	74070-46-5	M	x
Alaclor	15972-60-8	LM	x
Aldrin	309-00-2	Tab.3 (Dlgs 30/2009 smi)	x
Ampa (metabolita)	74341-63-2	LM	x
Atrazina	1912-24-9	LM	x
Atrazina desetil-(metabolita)	6190-65-4	LM	x
Azoxystrobin	131860-33-8	LM (A)	x
Bensulfuron-methyl	83055-99-6	A	x
Bentazone	25057-89-0	A	x
Boscalid	188425-85-6	LM (A)	x
Bromoxinil	1689-84-5	A	x
Bupirimate	41483-43-6	A	
Captan	133-06-2	M	
Chlorantraniliprole	500008-45-7	A	x
Chloridazon	1698-60-8	A	x
Chlorotoluron	15545-48-9	M-A	x
Chlorpyrifos	2921-88-2	LM (A)	x
Chlorpyrifos-Methyl	5598-13-0	M	
Clothianidin	210880-92-5	M (WL)	
Cianazina	21725-46-2	Monitoraggi	
Cicloxidim	101205-02-1	M-A	x
Cimoxanil	57966-95-7	M-A	x
Clodinafop-Propargyl	105512-06-9	M	x
Clopyralid	1702-17-6	M-A	x
Clortalonil	1897-45-6	M-A	x
Cyazofamid	120116-88-3	M	
Cypermethrin	52315-07-8	A	x
Cyproconazol	113096-99-4	A	x
Cyprodinil	121552-61-2	LM (A)	x
Dazomet	533-74-4	M-A	x
Deltamethrin	52918-63-5	A	x
Dicamba	1918-00-9	A	x
Dieldrin	60-57-1	Tab.3 (Dlgs 30/2009 smi)	x
Difenoconazol	119446-68-3	M	x
Dimethenamid	87674-68-8	M-A	x
Dimethoate	60-51-5	LM (A)	x
Dimethomorph	110488-70-5	LM (A)	x
Diquat	2764-72-9	M-A	x
Ditianon	3347-22-6	M	
Dodina	24239-10-3	M-A	x
Endrin	72-20-8	Tab.3 (Dlgs 30/2009 smi)	x
Etefon	16672-87-0	M	
Etofumesate	26225-79-6	M-A	x
Etofenprox	80844-07-1	M	x
Etoprofos	13194-48-4	M	x
Fenamidone	161326-34-7	M-A	x
Fenhexamid	126833-17-8	LM (M-A)	x
Fenpirazamina	473798-59-3	M	
Flonicamid	158062-67-0	M	
Fluazifop-P-Butile	79241-46-6	M	x
Fludioxonil	131341-86-1	LM (A)	x
Flufenacet	142459-58-3	M-A	x
Fluopicolide	239110-15-7	LM (M-A)	x
Fluopyram	658066-35-4	M	x
Fluroxypyr	69377-81-7	M-A	x
Folpet	133-07-3	M	x
Formetanato	22259-30-9	M-A	x
Fosetil alluminio	39148-24-8	M-A	x
Gliphosate	1071-83-6	LM (A)	x
Glufosinate Ammonio	77182-82-2	M-A	x
HCH-Alfa	319-84-6	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Beta	319-85-7	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Delta	319-86-8	Tab.3 (Dlgs 30/2009 smi)	x
HCH-Gamma	58-89-9	Tab.3 (Dlgs 30/2009 smi)	x
Hexythiazox	78587-05-0	M	
Imidacloprid	105827-78-9	LM (A-WL)	x
Ioxynil	1689-83-4	A	x
Iprodione	36734-19-7	M-A	x
Iprovalicarb	140923-17-7	M-A	x
Isodrin	465-73-6	Tab.3 (Dlgs 30/2009 smi)	x
Lamda-Cyhalothrin	91465-08-6	M-A	x
Lenacil	08/01/2164	A	x
Linuron	330-55-2	LM (A)	x
Mancozeb	01/07/8018	A	x
Mandipropamid	374726-62-2	M	x
Mcpa	94-74-6	LM (A)	x
Mecoprop (MCPP)	93-65-2	A	x
Meptyldinocap	131-72-6	M	
Mesosulfuron-Metil	208465-21-8	M-A	x
Metalaxyl	57837-19-1	LM (A)	x
Metalaxyl-M	70630-17-0	LM (A)	x
Metam-Sodium	137-42-8	A	x
Metamitron	41394-05-2	A	x
Metazaclor	67129-08-2	M-A	x
Methiocarb	2032-65-7	M-A (WL)	x
Metiram	9006-42-2	A	x
Metolachlor(s-Metolaclor)	51218-45-2 (178961-20-1)	LM (M-A)	x
Metomil	16752-77-5	M	x
Metossifenozide	161050-58-4	M-A	x
Metrafenone	220899-03-6	M	
Metribuzin	21087-64-9	LM (A)	x
Myclobutanil	88671-89-0	A	x
NAA	86-87-3	M-A	x
O,p-DDD	53-19-0	Monitoraggi	
O,p-DDE	3424-82-6	Monitoraggi	
Oxadiazon	19666-30-9	M-A (WL)	x
Oxamil	23135-22-0	M-A	
Oxifluorfen	42874-03-3	M	x
P,p-DDD	72-54-8	Tab.3 (Dlgs 30/2009 smi)	x
P,p-DDE	72-55-9	Tab.3 (Dlgs 30/2009 smi)	x
P,p-DDT	50-29-3	Tab.3 (Dlgs 30/2009 smi)	x
Penconazol	66246-88-6	LM (A)	x
Pendimethalin	40487-42-1	LM (A)	x
Phenmedipham	13684-63-4	M	x
Phosmet	732-11-6	M-A	x
Picoxystrobin	117428-22-5	M	x
Pinoxaden	243973-20-8	M	x
Propamocarb	24579-73-5	LM (A)	x
Propiconazolo	60207-90-1	M-A	x
Propineb	12071-83-9	M-A	x
Propizamide	23950-58-5	LM (A)	x
Pyraclostrobin	175013-18-0	M	x
Pyrimethanil	53112-28-0	LM (A)	x
Quinoxyfen	124495-18-7	M	x
Sedaxane	874967-67-6	M	x
Simazina	122-34-9	LM	x
Spinosad	168316-95-8	M	x
Spiroxamine	118134-30-8	LM (A)	x
Tebuconazole	107534-96-3	LM (A)	x
Tebufenpyrad	119168-77-3	M	
Terbutilazina	5915-41-3	LM (M)	x
Terbutilazina desetil-(metabolita)	30125-63-4	LM	x
Tetraconazole	112281-77-3	M	x
Thiamethoxam	153719-23-4	M (WL)	x
Thiophanate-Methyl (carbendazim)	23564-05-8 (10605-21-7)	LM (M-A)	x
Tiacloprid	111988-49-9	M-B (WL)	x
Tiram	137-26-8	A	x
Tolclofos-Methyl	57018-04-9	M	x
Triallate	2303-17-5	M-B (WL)	x
Tribenuron Metile	101200-48-0	M	x
Trichlopyr	55335-06-3	M-A	x
Triciclazolo	41814-78-2	M-A	x
Ziram	137-30-4	A	
Zoxamide	156052-68-5	M	
Totale			155

Totale	PN201043_RF	PN201046_RF	PN201047_RF	PN201048_RF	PN201051_RF	PN201055_RF	PN201074_RF	PN201075_RF	PN201076_RF	PN201079_RF	PN201082_RF	PN201084_RF	PN201086_RF	PN201088_RF	PN201094_RF	PN201095_RF	PN201096_RF	PN201098_RF	PN201112_RF	PN201118_RF	PN201205_RF	PN401003_RF	PN401004_RF	PN401005_RF	PN401007_RF	PN401008_RF	PN401009_RF	PN401011_RF	PN401012_RF	PN401013_RF	PN401015_RF
Totale	155	135	125	138	141	141	139	143	134	139	144	149	149	154	143	149	153	155	156	157	135	144	155	144	141	139	139	[illegible]	[illegible]	[illegible]	134

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MATRICE SOT	cas	prior
1,3-Dicloropropene	542-75-6	M-A
2,4-D	94-75-7	LM (A)
Acetamiprid	135410-20-7	A (WL)
Acido Gibberellico	77-06-5	M
Aclonifen	74070-46-5	M
Alaclor	15972-60-8	LM
Aldrin	309-00-2	Tab.3 (Dlgs 30/2009 smi)
Ampa (metabolita)	74341-63-2	LM
Atrazina	1912-24-9	LM
Atrazina desetil-(metabolita)	6190-65-4	LM
Azoxystrobin	131860-33-8	LM (A)
Bensulfuron-methyl	83055-99-6	A
Bentazone	25057-89-0	A
Boscalid	188425-85-6	LM (A)
Bromoxinil	1689-84-5	A
Bupirimate	41483-43-6	A
Captan	133-06-2	M
Chlorantraniliprole	500008-45-7	A
Chloridazon	1698-60-8	A
Chlorotoluron	15545-48-9	M-A
Chlorpyrifos	2921-88-2	LM (A)
Chlorpyrifos-Methyl	5598-13-0	M
Clotianidin	210880-92-5	M (WL)
Cianazina	21725-46-2	Monitoraggi
Cicloxidim	101205-02-1	M-A
Cimoxanil	57966-95-7	M-A
Clodinafop-Propargyl	105512-06-9	M
Clopyralid	1702-17-6	M-A
Clorotalonil	1897-45-6	M-A
Cyazofamid	120116-88-3	M
Cypermethrin	52315-07-8	A
Cyproconazol	113096-99-4	A
Cyprodinil	121552-61-2	LM (A)
Dazomet	533-74-4	M-A
Deltamethrin	52918-63-5	A
Dicamba	1918-00-9	A
Dieldrin	60-57-1	Tab.3 (Dlgs 30/2009 smi)
Difenoconazol	119446-68-3	M
Dimethenamid	87674-68-8	M-A
Dimethoate	60-51-5	LM (A)
Dimethomorph	110488-70-5	LM (A)
Diquat	2764-72-9	M-A
Ditianon	3347-22-6	M
Dodina	24239-10-3	M-A
Endrin	72-20-8	Tab.3 (Dlgs 30/2009 smi)
Etefon	16672-87-0	M
Ethofumesate	26225-79-6	M-A
Etofenprox	80844-07-1	M
Etoprofos	13194-48-4	M
Fenamidone	161326-34-7	M-A
Fenhexamid	126833-17-8	LM (M-A)
Fenpirazamina	473798-59-3	M
Flonicamid	158062-67-0	M
Fluazifop-P-Butile	79241-46-6	M
Fludioxonil	131341-86-1	LM (A)
Flufenacet	142459-58-3	M-A
Fluopicolide	239110-15-7	LM (M-A)
Fluopyram	658066-35-4	M
Fluroxypyr	69377-81-7	M-A
Folpet	133-07-3	M
Formetanato	22259-30-9	M-A
Fosetilalluminio	39148-24-8	M-A
Gliphosate	1071-83-6	LM (A)
Glufosinate Ammonio	77182-82-2	M-A
HCH-Alfa	319-84-6	Tab.3 (Dlgs 30/2009 smi)
HCH-Beta	319-85-7	Tab.3 (Dlgs 30/2009 smi)
HCH-Delta	319-86-8	Tab.3 (Dlgs 30/2009 smi)
HCH-Gamma	58-89-9	Tab.3 (Dlgs 30/2009 smi)
Hexythiazox	78587-05-0	M
Imidacloprid	105827-78-9	LM (A-WL)
Ioxynil	1689-83-4	A
Iprodione	36734-19-7	M-A
Iprovalicarb	140923-17-7	M-A
Isodrin	465-73-6	Tab.3 (Dlgs 30/2009 smi)
Lamda-Cyhalothrin	91465-08-6	M-A
Lenacil	08/01/2164	A
Linuron	330-55-2	LM (A)
Mancozeb	01/07/8018	A
Mandipropamid	374726-62-2	M
Mcpa	94-74-6	LM (A)
Mecoprop (MCPP)	93-65-2	A
Meptyldinocap	131-72-6	M
Mesosulfuron-Metil	208465-21-8	M-A
Metalaxyl	57837-19-1	LM (A)
Metalaxyl-M	70630-17-0	LM (A)
Metam-Sodium	137-42-8	A
Metamitron	41394-05-2	A
Metazaclor	67129-08-2	M-A
Methiocarb	2032-65-7	M-A (WL)
Metiram	9006-42-2	A
Metolachlor(s-Metolaclor)	51218-45-2 (178961-20-1)	LM (M-A)
Metomil	16752-77-5	M
Metossifenozide	161050-58-4	M-A
Metrafenone	220899-03-6	M
Metribuzin	21087-64-9	LM (A)
Myclobutanil	88671-89-0	A
NAA	86-87-3	M-A
O,p-DDD	53-19-0	Monitoraggi
O,p-DDE	3424-82-6	Monitoraggi
Oxadiazon	19666-30-9	M-A (WL)
Oxamil	23135-22-0	M-A
Oxifluorfen	42874-03-3	M
P,p-DDD	72-54-8	Tab.3 (Dlgs 30/2009 smi)
P,p-DDE	72-55-9	Tab.3 (Dlgs 30/2009 smi)
P,p-DDT	50-29-3	Tab.3 (Dlgs 30/2009 smi)
Penconazol	66246-88-6	LM (A)
Pendimethalin	40487-42-1	LM (A)
Phenmedipham	13684-63-4	M
Phosmet	732-11-6	M-A
Picoxystrobin	117428-22-5	M
Pinoxaden	243973-20-8	M
Propamocarb	24579-73-5	LM (A)
Propiconazole	60207-90-1	M-A
Propineb	12071-83-9	M-A
Propizamide	23950-58-5	LM (A)
Pyraclostrobin	175013-18-0	M
Pyrimethanil	53112-28-0	LM (A)
Quinoxyfen	124495-18-7	M
Sedaxane	874967-67-6	M
Simazina	122-34-9	LM
Spinosad	168316-95-8	M
Spiroxamine	118134-30-8	LM (A)
Tebuconazole	107534-96-3	LM (A)
Tebufenpyrad	119168-77-3	M
Terbutilazina	5915-41-3	LM (M)
Terbutilazina desetil-(metabolita)	30125-63-4	LM
Tetraconazole	112281-77-3	M
Thiamethoxam	153719-23-4	M (WL)
Thiophanate-Methyl (carbendazim)	23564-05-8 (10605-21-7)	LM (M-A)
Tiacloprid	111988-49-9	M-B (WL)
Tiram	137-26-8	A
Tolclofos-Methyl	57018-04-9	M
Triallate	2303-17-5	M-B (WL)
Tribenuron Metile	101200-48-0	M
Triclopyr	55335-06-3	M-A
Triciclazolo	41814-78-2	M-A
Ziram	137-30-4	A
Zoxamide	156052-68-5	M
Totale		

Stazione	Totale
PN401016_RF	143
PN401017_RF	141
PN401018_RF	124
PN401019_RF	145
PN401020_RF	145
PN401022_RF	146
PN401028_RF	140
PN401030_RF	119
PN401036_RF	127
PN401041_RF	119
PN401044_RF	140
PN401649_RF	155
PN401658_RF	143
PN401660_RF	140
PR000154_RF	143
PR000201_RF	135
PS000114_RF	141
PS000121_RF	144
PS000126_RF	143
PS000133_RF	135
PS000140_RF	141
PS000159_RF	154
PS000163_RF	143
PS000172_RF	155
PS000174_RF	148
PS000179_RF	135
PS000182_RF	135
PS000197_RF	[illegible]
PS000220_RF	[illegible]
PS001103_RF	[illegible]
PS201120_RF	[illegible]

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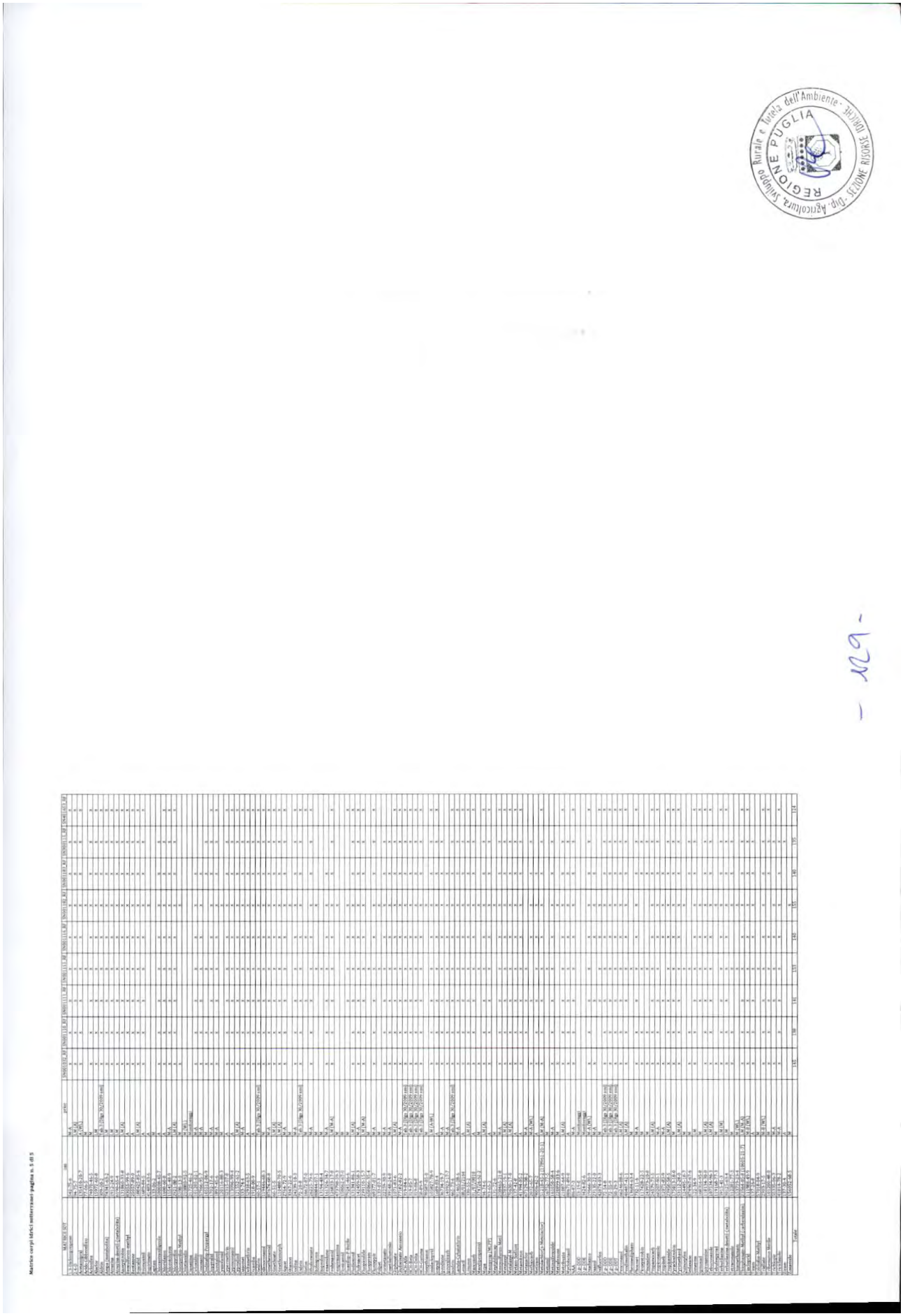
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