INTERNATIONAL COOPERATIVE PROGRAMME ON INTEGRATED MONITORING ON AIR POLLUTION EFFECTS ON ECOSYSTEMS
ASSOCIAZIONE MICOLOGICA BRESADOLA-GRUPPO DI BOLZANO
PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI
EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE

Risultati della quarta annata (1996) di raccolte micologiche

Legenda :  M : carpofori fungini di specie stimate micorriziche
          S : carpofori fungini di specie stimate saprofone o saprotrofe
          n. : numero dei carpofori fungini
          b. : biomassa secca dei carpofori fungini in grammi

Località Lavazè :

<table>
<thead>
<tr>
<th>Area di saggio 1</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>90 (31,36%)</td>
<td>197 (68,64%)</td>
</tr>
<tr>
<td>b.</td>
<td>68,296 (70,95%)</td>
<td>27,965 (29,05%)</td>
</tr>
<tr>
<td>n. totale</td>
<td>287</td>
<td></td>
</tr>
<tr>
<td>b. totale</td>
<td>96,291</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area di saggio 2</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>201 (21,64%)</td>
<td>728 (78,36%)</td>
</tr>
<tr>
<td>b.</td>
<td>117,78 (46,48%)</td>
<td>135,625 (53,52%)</td>
</tr>
<tr>
<td>n. totale</td>
<td>929</td>
<td></td>
</tr>
<tr>
<td>b. totale</td>
<td>253,405</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Area di saggio 3</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>94 (28,92%)</td>
<td>231 (71,08%)</td>
</tr>
<tr>
<td>b.</td>
<td>83,677 (89,91%)</td>
<td>9,388 (10,09%)</td>
</tr>
<tr>
<td>n. totale</td>
<td>325</td>
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</tr>
<tr>
<td>b. totale</td>
<td>93,065</td>
<td></td>
</tr>
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Totale località Lavazè :

<table>
<thead>
<tr>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>385 (24,98%)</td>
</tr>
<tr>
<td>b.</td>
<td>269,753 (60,93%)</td>
</tr>
<tr>
<td>n. totale</td>
<td>1541</td>
</tr>
<tr>
<td>b. totale</td>
<td>442,731</td>
</tr>
</tbody>
</table>

Località Monticolo :

<table>
<thead>
<tr>
<th>Area di saggio 1</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>1147 (38,78%)</td>
<td>1811 (61,22%)</td>
</tr>
<tr>
<td>b.</td>
<td>398,232 (62,47%)</td>
<td>239,259 (37,53%)</td>
</tr>
<tr>
<td>n. totale</td>
<td>2958</td>
<td></td>
</tr>
<tr>
<td>b. totale</td>
<td>637,491</td>
<td></td>
</tr>
</tbody>
</table>
### Area di saggio 2:

<table>
<thead>
<tr>
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<th>M</th>
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<th>S</th>
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</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>185</td>
<td>345</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>272,549</td>
<td>136,792</td>
<td>530</td>
<td>409,341</td>
</tr>
</tbody>
</table>

### Area di saggio 3:

<table>
<thead>
<tr>
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<th>M</th>
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<th>S</th>
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</tr>
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<tbody>
<tr>
<td>n.</td>
<td>379</td>
<td>7400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>860,497</td>
<td>100,096</td>
<td>7779</td>
<td>960,593</td>
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</table>

### Totale località Monticolo:

<table>
<thead>
<tr>
<th></th>
<th>M</th>
<th></th>
<th>S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>1711</td>
<td>9556</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>1531,278</td>
<td>476,147</td>
<td>11267</td>
<td>2007,425</td>
</tr>
</tbody>
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**Località Pomarolo:**

### Area di saggio 1:

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th>S</th>
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</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>382</td>
<td>1153</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>562,347</td>
<td>290,032</td>
<td>1535</td>
<td>852,379</td>
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### Area di saggio 2:

<table>
<thead>
<tr>
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<th></th>
<th>S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>413</td>
<td>1177</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>718,130</td>
<td>261,87</td>
<td>1590</td>
<td>980,0</td>
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</table>

### Area di saggio 3:

<table>
<thead>
<tr>
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<th>M</th>
<th></th>
<th>S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>193</td>
<td>340</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>274,313</td>
<td>84,689</td>
<td>533</td>
<td>359,002</td>
</tr>
</tbody>
</table>

### Totale località Pomarolo:

<table>
<thead>
<tr>
<th></th>
<th>M</th>
<th></th>
<th>S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n.</td>
<td>988</td>
<td>2670</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>1554,790</td>
<td>636,591</td>
<td>3658</td>
<td>2191,381</td>
</tr>
</tbody>
</table>
Località Renon:

<table>
<thead>
<tr>
<th>Area di saggio 1:</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n.  127 (60,48%)</td>
<td>n.  83 (39,52%)</td>
</tr>
<tr>
<td></td>
<td>b. 153,345 (74,05%)</td>
<td>b. 53,741 (25,95%)</td>
</tr>
<tr>
<td></td>
<td>n. totale 210</td>
<td>b. totale 207,086</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area di saggio 2:</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n.  147 (54,85%)</td>
<td>n.  121 (45,15%)</td>
</tr>
<tr>
<td></td>
<td>b. 233,805 (88,02%)</td>
<td>b. 31,837 (11,98%)</td>
</tr>
<tr>
<td></td>
<td>n. totale 268</td>
<td>b. totale 265,642</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area di saggio 3:</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n.  187 (82,38%)</td>
<td>n.  40 (17,62%)</td>
</tr>
<tr>
<td></td>
<td>b. 266,076 (91,70%)</td>
<td>b. 24,095 (8,30%)</td>
</tr>
<tr>
<td></td>
<td>n. totale 227</td>
<td>b. totale 290,171</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Totale località Renon:</th>
<th>M</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n.  461 (65,39%)</td>
<td>n.  244 (34,61%)</td>
</tr>
<tr>
<td></td>
<td>b. 653,226 (85,62%)</td>
<td>b. 109,673 (14,38%)</td>
</tr>
<tr>
<td></td>
<td>n. totale 705</td>
<td>b. totale 762,899</td>
</tr>
</tbody>
</table>

Relazione dopo il 4° anno (1996) di raccolte micologiche

di F. Bellù

Nelle 4 località campione sopra menzionate sono state eseguite regolari campionature da parte di tutti i Soci incaricati. L’annata 1996 è stata caratterizzata da un bizzarro andamento climatologico, che ha palesemente influito pesantemente sulle quattro località di raccolta, determinando una vera e propria inversione di produzione di carpo fori rispetto alle annate precedenti. Queste condizioni climatiche hanno notevolmente svantaggiato una delle due località più montagne e con maggior altitudine sul livello del mare e cioè Lavazè, dove la produzione fungina si è notevolmente ridotta: Lavazè ha fatto registrare una contrazione delle produzione carpo forale di oltre il 50% in termini numerici e comunque del 40% in termini di biomassa. Invece nelle altre tre località si sono registrati notevoli incrementi numerici e di biomassa nella produzione carpo forale: a Pomarolo vi è stato un aumento di circa il 20% del numero dei carpo fori, ma di oltre il 400% in termini di biomassa, rispetto al '95; questo aumento è comunque rilevantissimo anche nei confronti del 1994 (v. tabella). Renon ha fatto registrare un lieve aumento in termini numerici (29%), ma molto intenso in termini di biomassa (oltre il 240% !). Ma la località più interessata dagli eventi climatologici è stata sicuramente Monticolo dove vi è stata una immensa crescita fungina, che ha evidentemente fatto da contraltare all'annata
'95, praticamente micologicamente nulla! A Monticolo la produzione carpoforale è aumentata rispetto al '95 di circa il 3100 % e, in termini di biomassà di almeno il 1000% (!!!). Queste enormi variazioni di produzione fungina da una stagione all'altra, per evidenti motivi climatologici, rendono estremamente difficile la valutazione dei nostri dati ed il raggiungimento degli obiettivi stessi che questo monitoraggio si prefigge. Si tratta praticamente di esaminare, anno dopo anno, situazioni di 'stress' boschivo, sia in termini di eccessiva siccità, sia in termini opposti di eccessiva piovosità, senza quasi mai riuscire ad avere, e confrontare fra loro, annate 'normali' con crescita, per così dire, media. E' evidente che gli eventuali effetti di inquinamento sui rapporti funghi micorrizici/saprotrofi sarebbero molto più evidenti e documentabili in situazioni climatologicamente normali, piuttosto che in condizioni di permanente 'stress' boschivo climatologico. Solo il fattore tempo, e cioè il diligente prolungamento delle osservazioni monitorate per diversi anni, può appianare statisticamente questo grave problema. Queste sono comunque le tabelle di confronto delle varie annate di monitoraggio:

**Tabella di confronto crescita numerica dei carpofori (n. totale carpofori raccolti)**:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavazè</td>
<td>465</td>
<td>5468</td>
<td>3364*</td>
<td>1541</td>
</tr>
<tr>
<td>Monticolo</td>
<td>1485</td>
<td>2172</td>
<td>360</td>
<td>11267</td>
</tr>
<tr>
<td>Pomarolo</td>
<td>1771</td>
<td>3729</td>
<td>2955**</td>
<td>3658</td>
</tr>
<tr>
<td>Renon</td>
<td>634</td>
<td>2897</td>
<td>506</td>
<td>705</td>
</tr>
</tbody>
</table>

*: nel '95 a Lavazè, erano anche stati contati i carpofori in numero di 2734, defalando 630 esemplari di una enorme raccolta di Hypholoma capnoides dell'area 2.

**: nel '95 a Pomarolo, erano stati contati i carpofori in numero di 33295, poi defalcati di 30340 esemplari di due enormi raccolte, di 211 e 30129 esemplari, rispettivamente di Armillaria mellea e Marasmius epiphyllus, delle aree 1 e 2.

**Tabella di confronto della biomassà secca totale in grammi nelle 4 stagioni di raccolta**:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavazè</td>
<td>213,29</td>
<td>1693,58</td>
<td>736,73</td>
<td>442,731</td>
</tr>
<tr>
<td>Monticolo</td>
<td>894,65</td>
<td>628,58</td>
<td>208,44</td>
<td>2007,425</td>
</tr>
<tr>
<td>Pomarolo</td>
<td>1481,68</td>
<td>1732,07</td>
<td>538,15</td>
<td>2191,381</td>
</tr>
<tr>
<td>Renon</td>
<td>407,30</td>
<td>1559,47</td>
<td>316,50</td>
<td>762,899</td>
</tr>
</tbody>
</table>

Esaminiamo ora in dettaglio i dati di raccolta 1996 delle 4 località campione: A Lavazè, come sopra già accennato, vi è stata una pesante riduzione della produzione fungina sia in termini numerici che di biomassà. Ma quel che più appare preoccupante è il significativo decremento in termini di biomassà della percentuale dei funghi micorrizici del 15% e anche oltre, rispetto al '95. Questa diminuzione è da ascrivere esclusivamente alle aree 1 e 2 ed è certamente riconducibile alle patologie forestali sicuramente in atto in queste aree e che già erano state notate nelle passate stagioni. Il corredo di funghi saprotrofi che ne conseguire è estremamente attivo, nell'area 1 prevalentemente con saprofiti terricoli o di lettiera (Collybia, Mycena), mentre nell'area 2 prevalgono i saprofiti lignici, precipuamente Hypholoma capnoides. In questa area 2 si nota, per la prima volta, in un bosco subalpino di conifere, una inversione del rapporto numerico di biomassà a favore dei funghi saprotrofi (M 46,48% ↔ S 53,52%). Si noti che, al contrario, l'area 3 è totalmente indenne da questi fenomeni degradativi, mantenendo essa un
nettissimo vantaggio a favore dei micorrizici (M 89,91% ↔ S 10,09%) : ciò è palesemente correlato con le diversità ambientali ed ecologiche di questa area di saggio, che è prevalentemente paludosa o semipaludosa. Questa grossolana ed acuta diversità ambientale anche tra aree piuttosto vicine, non deve probabilmente stupirci più di tanto, visto che pare abbastanza assodato che i fenomeni di degradazione boschiva abbiano, almeno inizialmente, andamenti a mosaico.

A Monticolo si è invece assistito ad un totale e completo viraggio dei dati ambientali rispetto al ‘95 ! Alla luce di queste raccolte, appare chiaro che la precedente annata era semplicemente da considerare micologicamente poco significativa. L’inversione dei dati ambientali micologici è veramente clamorosa e sembra addirittura avvalersi di una sorprendente specularità : nel ’95 M 20,4% + S 79,6% ↔ nel ’96 M 76,28% + S 23,72%. Ma in tutte le tre aree di saggio di Monticolo si è ora registrata una netta prevalenza micorrizica, meno evidente in termini numerici, ma sempre molto significativa in termini di biomassa. E’ doveroso quindi aggiungere, come sopra accennato, che in boschi così soggetti alla bizzarrie climatologiche, è necessario prolungare il monitoraggio per molte stagioni, se non altro per riuscire a capire statisticamente quale sia la ‘media’ dei rapporti M/S, soprattutto in termini di biomassa, di siffatta area boschiva.

A Pomarolo si è anche registrato un fenomeno quasi analogo che in quel di Monticolo, e anche qui con una sorprendente inversione speculare dei dati : nel ’95 M 32,4% + S 67,6% ↔ nel ’96 M 70,95% + S 29,05%. In tal caso i dati ‘96 appaiono tornare molto simili a quelli del ’94, dove anche la crescita carpoforale fu abbastanza buona (M 62,82% + S 37,18%). Essendo Pomarolo un bosco mortano, prevalentemente misto, è evidente che una parte delle problematiche esistenti a Monticolo, prevalentemente a latifoglia, sono presenti anche in questa area boschiva. Le tre aree di saggio di Pomarolo si comportano invece piuttosto uniformemente e le inversioni M/S che le singole aree hanno presentato, soprattutto in termini di biomassa, paiono essere molto simili fra di loro, con scarti percentuali fra un’area e l’altra di non oltre il 10%.

Infine a Renon si è registrato un notevole incremento, soprattutto di biomassa, più che raddrizzata in confronto al ‘95. In questo bosco subalpino il rapporto M/S è sempre rimasto a favore di M, sia numericamente che in biomassa, con scarti percentuali nei dati annuali, che raramente superano il 15-20%. Buona e costante pare anche l’uniformità fra le tre aree di saggio. Renon appare senz’altro essere la località più stabile dal punto di vista ambientale, fra le quattro allo studio.

In conclusione generale si può dire che, a parte l’andamento fortemente negativo della località Lavazè, nelle altre tre località monitorate si è assistito ad un importante miglioramento dei dati ambientali micologici, supportati da un generale forte incremento delle crescita carpoforale proveniente da miceti micorrizici. Come dianzi detto, le gravi bizzarrie climatologiche di queste ultime stagioni influenzano in modo molto intenso le produzioni carpoforali, in senso sia eccessivamente positivo che negativo. A questo si deve aggiungere che, in due delle località prescelte, Monticolo e Pomarolo, l’influenza del fattore 'latifoglia', come già citato nella relazione del ’95, rende ancora più incostanti, da stagione a stagione, i dati micologici. Solo osservazioni più prolunrate, per molte stagioni, saranno in grado di chiarire questa problematica.
<table>
<thead>
<tr>
<th>Località RENON - area di saggio 1</th>
<th>Data</th>
<th>N. carpofoi</th>
<th>Densità carpofoi N. su 1000m2</th>
<th>Biomassa secca g</th>
<th>Densità biomassa g su 1000m2</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEGATIVO</td>
<td>17.06.96</td>
<td></td>
<td>0,00</td>
<td></td>
<td>0,00</td>
</tr>
<tr>
<td>NEGATIVO</td>
<td>24.06.96</td>
<td></td>
<td>0,00</td>
<td></td>
<td>0,00</td>
</tr>
<tr>
<td>NEGATIVO</td>
<td>01.07.96</td>
<td></td>
<td>0,00</td>
<td></td>
<td>0,00</td>
</tr>
<tr>
<td>Mycena pura</td>
<td>15.07.96</td>
<td>2</td>
<td>8.89</td>
<td>0.506</td>
<td>2.25</td>
</tr>
<tr>
<td>Amanita submembranacea</td>
<td></td>
<td>2</td>
<td>0.09</td>
<td>2.134</td>
<td>9.48</td>
</tr>
<tr>
<td>Armillaria ostoyae</td>
<td>22.07.96</td>
<td>19</td>
<td>84.44</td>
<td>15.348</td>
<td>68.21</td>
</tr>
<tr>
<td>Xerocomus badius</td>
<td>29.07.96</td>
<td>1</td>
<td>4.44</td>
<td>2.412</td>
<td>10.72</td>
</tr>
<tr>
<td>Lactarius rufus</td>
<td></td>
<td>1</td>
<td>4.44</td>
<td>1.241</td>
<td>5.52</td>
</tr>
<tr>
<td>NEGATIVO</td>
<td>05.08.96</td>
<td></td>
<td>0,00</td>
<td></td>
<td>1.950</td>
</tr>
<tr>
<td>Chroogomphus helveticus</td>
<td>12.08.96</td>
<td>6</td>
<td>26.67</td>
<td>2.558</td>
<td>11.37</td>
</tr>
<tr>
<td>Hygrophorus agathosmus</td>
<td></td>
<td>3</td>
<td>13.33</td>
<td>0.446</td>
<td>1.98</td>
</tr>
<tr>
<td>Lactarius badiosanguineus</td>
<td></td>
<td>1</td>
<td>4.44</td>
<td>0.702</td>
<td>3.12</td>
</tr>
<tr>
<td>Hygrophorus agathosmus</td>
<td>20.08.96</td>
<td>2</td>
<td>8.89</td>
<td>1.306</td>
<td>5.80</td>
</tr>
<tr>
<td>Lycoperdon cyathiformis</td>
<td></td>
<td>5</td>
<td>22.22</td>
<td>3.155</td>
<td>14.02</td>
</tr>
<tr>
<td>Melanoleuca melaleuca</td>
<td></td>
<td>4</td>
<td>17.78</td>
<td>6.409</td>
<td>28.48</td>
</tr>
<tr>
<td>Cortinarius gentilis</td>
<td></td>
<td>1</td>
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## ASSOCIAZIONE MICOLOGICA BRESADOLA  
**GRUPPO DI BOLZANO**

### PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996

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20.11.00
### ASSOCIAZIONE MICOLOGICA BRESADOLA
### GRUPPO DI BOLZANO

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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## ASSOCIAZIONE MICOLOGICA BRESADOLA
### GRUPPO DI BOLZANO

### PROGRAMMA INTERNAZIONALE DI VALUTAZIONE
E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO
AMBIENTALE SULLE FORESTE - ANNO 1996

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### ASSOCIAZIONE MICOLOGICA BRESADOLA
#### GRUPPO DI BOLZANO

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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20.11.00

Pagina 4
### ASSOCIAZIONE MICOLOGICA BRESADOLA
**GRUPPO DI BOLZANO**

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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### ASSOCIAZIONE MICOLOGICA BRESADOLA

**GRUPPO DI BOLZANO**

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE**

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## ASSOCIAZIONE MICOLOGICA BRESADOLA
### GRUPPO DI BOLZANO

### PROGRAMMA INTERNAZIONALE DI VALUTAZIONE
E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE

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### ASSOCIAZIONE MICOLOGICA BRESADOLA
#### GRUPPO DI BOLZANO

#### PROGRAMMA INTERNAZIONALE DI VALUTAZIONE
E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO
AMBIENTALE SULLE FORESTE

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### LAVAZÈ - area di saggio 3

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## ASSOCIAZIONE MICOLOGICA BRESADOLA

**GRUPPO DI BOLZANO**

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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**Notes:**
- Date: 09.10.96
- Biomass calculated in kg

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**Notes:**
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- Biomass calculated in kg

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20.11.00  Pagina 7
### POMAROLO - area di saggio 1

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| TOTALE                   | 1535     | 6822,22  | 852,379  | 3788,35 |
## ASSOCIAZIONE MICOLOGICA BRESADOLA
### GRUPPO DI BOLZANO

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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Data: 06.11.96
### ASSOCIAZIONE MICOLOGICA BRESADOLA
**GRUPPO DI BOLZANO**

**PROGRAMMA INTERNAZIONALE DI VALUTAZIONE E CONTROLLO DEGLI EFFETTI DI INQUINAMENTO AMBIENTALE SULLE FORESTE - ANNO 1996**

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POMAROLO - area di saggio 3

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