Inštitut za gozdno in lesno gospodarstvo
pri Biotehniški fakulteti v Ljubljani

Ivan SMDLE

VEGETACIJSKE IN RASTIŠČNE RAZMERE NA TRAJNIH RAZISKOVALNIH
PLOSKVAH HRASTA V SLOVENIJI

(I. DEL: KRAKOVSKI GOZD, CIGONCA, HRAŠČICA, BOJANCI, POLOM)

Raziskovalna naloga

Ljubljana, 1993
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pri BF v Ljubljani

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Iztok SANKOVIČ
Inštitut za gozdno in lesno gospodarstvo
pri BF v Ljubljani
Izvleček:

SMOLE, I.: VEGETACIJSKE IN RASTIŠČNE RAZMERE NA TRAJNIH RAZISKOVALNIH PLOSKVAH HRASTA V SLOVENIJI (I. DEL: KRAKOVSKI GOZD, CIGONCA, HRAŠCICA, BOJANCI, POLOM)


Ključne besede: ploskev, kvadrant, vegetacija, drevesni, grmovni, zeliščni, mahovni sloj, življenski spektter, trajnost listov, sociološko vedenje, kvalitativna analiza, ekološko vrednotenje, rastiščni dejavniki, srednja vrednost, Slovenija, Srednja Evropa
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</table>

K iskanju in postavitvi trajnih ploskev hrasta so nas poleg obveznosti do projekta vzpodobljala tudi zaskrbljujoča poročila s terena, ki so govorila o naraščajočem propadanju hrasta tudi pri nas glede to, ali gre za njegova tipična (primarna) ali drugotna (sekundarna) rastišča. Po odločitvi, naj znaša velikost vsake ploskve po 1 ha (100x100 m) smo izločili prvo dobo ploskev v Krakovskem gozdu v neposredni bližini večjega žarišča propadajočega in delno tudi že propadega doba. Naslednji dve ploskvi na primarnih dobovi rastiščih sta še v Cigonci pri Slovenski Bistrici ter v Hraskici pri Gancanih v Prekmurju. Edina gradnava raziskovalna ploskev je na zakraseli planoti nad Vinico v Beli Krajin s krajevnim imenom Vinička gmajna. Poimenovali smo jo po bližje ležečem naselju Bojanci. Zadnjo ploskev smo izločili v polomskem podolju za Malo goro na Kočevskega. To je dobova ploskev Polom. Za zadnji dve ploskvi domnevamo, da sta na sekundarnih hrastovih rastiščih, za zadnjo pa celo to, da utegne biti dob tukaj antropogeno vnešen in pospeševan.

Položaj omenjenih objektov prikazujejo priložene pregledne karte št. 1-6.
SITUACIJA TRAJNIH RAZISKovalnih PLOSKEV HRASTA V SLOVENIJI - Karta št. 1

LEGENDA:
1 - KRAKOVSKI GOZD pri Kostanjvici
2 - CIgonca pri Slovenski Distriči
3 - HRAŠČICA pri Gornjih
4 - BOJANCI pri Vinici
5 - POLOM pri Hinjih

IGLG, 1992
Trajna raziskovalna ploskev
KRAKOVSKI GOZD
M 1:50 000
Trajna raziskovalna ploskev
CIGONCA
M 1:50 000
Trajna raziskovalna ploskev
HRAŠČICA
M 1:50 000

IGLG, 1991
Trajna raziskovalna ploskev
BOJANCI
M 1:50 000

Karta št. 5
Trajna raziskovalna ploskev
POLOM
M 1:50 000

Karta št. 6

IGLG, 1991
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<tr>
<td>43</td>
<td>Viola sylvestris</td>
<td>+</td>
<td>2</td>
<td>2</td>
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<tr>
<td>44</td>
<td>Paris quadrifolia</td>
<td>+</td>
<td>2</td>
<td>2</td>
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</table>
2 METODA DELA

Teoretična izhodišča pri izbiri ploskev so bila naslednja:

- velikost ploskev je 1 ha, oblika po možnosti kvadratna (100 x 100 m)
- v proučevanje vključujemo dob in graden
- starost hrasta je vsaj 80 let ali več
- čim večja možno homogenost rastišča in sestoja
- lokacija na območjih, kjer so že ugotovljeni znaki propadanja hrasta, vendar so zaželeni manj prizadeti sestoji
- po možnosti naj bodo v družbenih gozdovih
- ploskev naj bo obdana z zaščitnim tamponskim pasom širine vsaj 30 m, ki jo varuje pred neposrednimi vplivi okolice (gozdne ceste in vlake, večje preseke, jase in drugi gozdni robovi, močno različni sestoji od tistih na ploskvip idp.)

Vsestransko idealnih razmer v naravi seveda ni. Sodimo, da smo se naštetim zahtevam še najbolj približali pri ploskvah na primarnih dobovih rastiščih. Preostali dve odstopa od njih predvsem v rastiščnem pogledu.

Izločanje ploskev v tehničnem smislu smo vršili z busolo, kotno prizmo in merskim trakom. Vsaka ploskev je razdeljena na 25 kvadrantov s površino 20x20 m (400 m²). Vsa oglišča so označena z obarvanimi količki, drevje s premerom nad 10 cm je oštevilčeno z barvo in označeno v prsni višini. Oštevilčenje drevja teče kontinuirano po 20 m širokih pasovih tako, da narašča od izhodišča ploskve (ta je praviloma na njenem JZ vogalu) v smeri proti desni, v naslednjem pasu se obrne v nasprotno smer itn. vse do zadnjega, 25. kvadranta na ploskvi.

V prvi fazi so bile napravljene še skice prostorskega razporeda oštevilčenega drevja po kvadrantih, izmerjen njihov obseg in ocenjene njihove lastnosti po IUFRO klasifikaciji, po presoji smo določenemu številu dreves izmerili tudi višino. Podatki so dokumentirani v terenskih manualih ločeno po ploskvah.

upoštevane oštevilčene (merske) drevesne (redkeje tudi grmovne) vrste, ker so že dokumentirane v terenskih manualih in situacijskih skicah.


Osnova metode je ekološko vrednotenje rastlinskih vrst. Biztvo ekološke opredelitve rastlinskih vrst (v začetku so upoštevali le praprotnice in semenke, danes pa tudi mahove, ki rastejo na tleh in lišajih) je izraženo v sedmih oz. šestih številkah, ki so v pregledni tabeli rastlinskih vrst dodane vsaki vrsti in ki opredeljujejo njeno ekološko vedenje (odzivanje, reagiranje) glede na najvažnejše rastiščne dejavnike. Pri tem so upoštevani trije klimatski dejavniki (svetloba, toplota, kontinentalnost) in trije talni faktorji (vлага, talna reakcija, preskrba tal z dušikom). Poleg tega je v razpredelnici ovrednoteno tudi odzivanje vrst na talno vsebnost soli oz. težkih kovin.

Ekološka reakcija rastlinskih vrst na 7 glavnih rastiščnih dejavnikov je ovrednotena v devetstopenjski lestvici tako, da stopnja 1 pomeni najmanjšo in stopnja 9 največjo mero (obseg) določenega dejavnika. Samo za talno vlago je lestvica podaljšana na 12, t.j. za tiste 3 stopnje, ki veljajo za vodne rastline. Neopredeljena ali nejasna reakcija rastlin je označena z znakom X, dvomljive vrednosti so navedene v drobnejšem tisku, z vprašanjem pa so označeni primeri, kjer sploh ni možno ugotoviti tendence vedenja vrste. Seznam iz 1. 1991 obsega 2726 vrst praprotnic in semen, 216 vrst rodu Rubus (robide), 279 rodom mahov in 148 rodom lišajev.

Indikacijske vrednosti rastlinskih vrst so bile v največji možni meri določene na osnovi meritev, ki so jih najprej vršili v severozahodni in jugozahodni Nemčiji ter v švic. Za presojo odnosov oz. razmerij so se in se še danes uporabljajo srednje vrednosti teh števil (n.pr. mS, mT, mD) t.j. povpraščne vrednosti, ki jih izračunamo iz posamičnih vrednost (S, T, D) za vse rastiščne vrste, ki so prisotne v nekem vegetacijskem popisu.

Obstajata dva možna načina obračunavanja srednjih vrednosti "kvalitativni" - samo po prisotnosti vrst ali "kvantitativni" - s ponderiranjem glede na ocenjeno količino vsake vrste. Prva pot je ne le enostavnejša, ampak in večini primerov tudi pravilnejša. Količina ali stopnja pokrovnosti, ki jo doseže določena rastlinska vrsta v sestoji med drugimi vrstami namreč ne zavisi samo od "naklonjenosti" rastišča tej vrsti, ampak tudi od specifičnega načina njene rasti. Večina kukaviček raste n.pr.
skoraj vedno posamič, vendar so dragoceni indikatorji in ti jih prisotnost trav ali zelišč, ki se močno vegetativno razmnožujejo (n.pr. Brachypodium rupestre ali Mercurialis perennis) ob upoštevanju pokrovne vrednosti zlahka neupravičeno "preglasovala". Izračun srednjih vrednosti indikacijskih števil ima tudi to prednost, da zajame indikacijo več vrst ali celo veliko število vrst, zato odkloni teh števil pri posameznih vrstah delujejo manj moteče.

V matematičnem smislu uporaba srednjih vrednosti ni povsem korektna, saj so indikacijska števila le vrstilne (ordinalne) vrednosti, ki jim pravzaprav ne smemo izračunavati povprečja.

V praksi se je izkazalo, da je pri izračunavanju srednjih vrednosti na kvalitativni način treba upoštevati naslednje pogoje oz. zahteve:

- iz obravnavje je treba izpustiti drevesne vrste, ker je njihova prisotnost na nekaterih rastiščih preveč podvržena antropogenim vplivom;
- vsako rastlinsko vrsto pri obračunu upoštevamo le enkrat, pa čeprav je zastopana v več slojih;
- gromovne vrste obravnavamo skupaj z zelišči. Glavna gmota njihovih drobnih korenin se namreč kljub dejansko globljemu koreninjenju teh vrst nahaja prav tako blizu talnega površja kot korenine zeliščnih vrst;
- iz obravnavje je treba izpustiti tudi tiste mahove, ki rastejo na skalah, drevesni skorji, lesnih ostankih ipd., ker ti substrati nudijo rastlinam povsem drugačne rastne pogoje kot gozdna tla.

Razen za ekološko vrednotenje rastišč smo rastlinski inventar na raziskovalnih ploskvah analizirali še glede na naslednje značilnosti:

- življenjski spekter rastlin
- razvrstitev rastlin glede na trajnost listov
- sociološko vedenje (sistematska pripadnost) rastlinskih vrst.

Ti podatki utegnejo dodatno osvetlitve vegetacijsko podobo ploskev in pojasniti nekatere pojave, ki jih proučujemo v naši raziskavi.
3 VEGETACIJSKA PODOBA HRASTOVIH PLOSKEV

3.1 SITUACIJA DREVJA IN STRUKTURA DREVESNIH VRST

Prvi vtis o vegetacijskih razmerah na obravnavanih objektih nam daje skica situacije drevja na njih (slike št. 1-5). To je prikaz prostorskega razporeda tistih drevesnih in grmovnih vrst, ki po svojem prsnem premeru presegajo meritveni prag 10 cm, so oštevilčene in predstavljajo pravzaprav prostorsko ogrodje raziskovalnih ploskev. Ker je obravnava drevesnega sloja predmet številnih drugih sklopov projekta Propadanje hrasta, v katerega se vklaplja tudi naša naloga, se tu omejujemo le na najosnovnejše informacije, ki izhajajo iz tega dokumenta.

- Površina, zgolj vizualna presoja prostorske razporeditve vrst drevesnega sloja kaže največjo homogenost ploskve Hraščica. Dobro so razporejena tudi hrastova drevesa. Na vseh ostalih ploskvah pa so v sestoj manjše ali večje vreži, razporedeitev hrastovih osebkov pa je na vseh še zadovoljiva, čeprav ni povsod optimalna.


- Najmanjše število drevesnih vrst je zajetih na ploskvi Hraščica (3). Po 6 drevesnih vrst je na ploskvah Krakovski gozd, Cigonca in Bojanci, na Polomu pa je registriranih kar 10 drevesnih vrst.

- Na dveh ploskvah presegajo meritveni prag tudi nekatere grmovne vrste (glog v Krakovskem gozdu in na Polomu, leska na Polomu), kar izpričuje sorazmerno ohranjenost teh sestojev.
PROPADANJE HRASTA V SLOVENIJI

TRAJNA RAZISKOVNA PLOŠKEV KRAKOVSKI GOZD - situacija dreva

Slika št. 1

LEGENDA DRVENSKIH VRST:
- DOB (Quercus robur L.)
- BELI GABER (Carpinus betulus L.)
- ČRNA JELŠA (Alnus glutinosa (L.) Gaertn.)
- MARLEN (Acer campestre L.)
- DOLOGOCELJASTI BREST (Ulmus Carpinifolia)
- GLOG (Crataegus monogyna)

OPOMBA: Razporeditev dreves v kvadrantih je prikazana približno (ni merjena, ampak je le ocenjena).

Razpored kvadrantov na ploskvi:
LEGENDA DRUČESNIH VRST:

- D05 (Quercus robur L.)
- B11 (Carpinus betulus L.)
- B12 (Aesculus hippocastanum L.)
- S11 (Picea abies (L.) Karsten)
- D13 (Abies alba Mill.)
- D14 (Pinus sylvestris L.)

OPOMBA: Razporeditev dreves v kvadrantih je prikazana približno (ni merjena, ampak le ocenjena)
LEGENDA DREVESNIH VRAST:

□ - DOL (Quercus robur L.)
○ - BELE GABER (Carpinus betulus L.)
⊙ - MAKLEN (Acer campestre L.)
× - SITUACIJA PANEV

OPOMBA: Raspored dvcev v kvadrantih je prikazana približno (ni mjerna, avpak le ocenjena).
LEGENDA DREVESNIH VRST:

- **GRADEN** (Quercus sessiliflora Salisb.)
- **BELI GABER** (Carpinus betulus L.)
- **BUKEV** (Fagus sylvatica L.)
- **ČEŠNJAK** (Prunus avium L.)
- **LIPOVEC** (Tilia cordata Mill.)
- **JELKA** (Abies alba Mill.)

**OPOMBA:** Razporeditev dreves je prikazana prižnno (ni merjena, ampak je le očrtana po kvadrantih).

**OPOMBE:**
- Zaradi pomote pri oznakovanju dreves je bilo izbišeno vse številke med 177 in 181. (od 180 do 182).
- Številka 252 je pomotoma na dveh različnih drevesih.
- Dejansko je na posami samo 305 dreves (314 - 10/preskučena desetica/ - 304 + 1/2 dreves; enako oznanem/ - 305).

**Raspored kvadrantov:**

<table>
<thead>
<tr>
<th>21</th>
<th>22</th>
<th>23</th>
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<th>25</th>
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<td>5</td>
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</tbody>
</table>
PROPADANJE HRASTA V SLOVENIJI

TRAJNA RAZISKOVALNA PLOŠKEV POLOM - situacija dreva

LEGENDA DREVESNIH VRST:

☐ - DOB (Quercus robur L.)
○ - BELI GABER (Carpinus betulus L.)
▼ - LIPOVEC (Tilia cordata Mill.)
○ - DROBNICA (Pyrus pyraster (L.) Barkh.)
○ - MAKLEN (Acer campestre L.)
омн. - BUKEV (Fagus sylvatica L.)
○ - VELIKI JESEN (Fraxinus excelsior L.)
○ - ČEŠNJA (Prunus avium L.)
○ - ENOVATI GLOG (Crataegus monogyna Jacq.)
○ - BELI JAVOR (Acer pseudoplatanus L.)
○ - TREPETIKA (Populus tremula L.)
○ - NAVADNA LESKA (Corylus avellana L.)

OPOMBA: Razporeditev dreves je prikazana približno (ni merjena, ampak je le ocenjena po kvadratih)
3.2 RASTLINSKI INVENTAR GRMOVNEGA, ZELIŠČNEGA IN MAHOVNEGA SLOJA

Rastlinski inventar podrastne vegetacije na ploskvah je prikazan na preglednicah št. 1-5. Prisotnost rastlinskih vrst je prikazana po kvadrantih, za vsako vrsto pa je navedena ocena abundance (število osebkov, za njihova pokrovnost) in sociabilnosti (način rasti). Prostorskega razporeda prevladujočih rastlinskih vrst razen v določenih letnih časih (n.pr. v predpomladi) ni bilo možno napraviti, zato smo takšne prikaze zaenkrat opustili. V poštevbi bi prišli edino v primeru, če bi se odločili prikazovati stanje vegetacije po letnih časih, kar so nam ne zdi smiselno.

Zaradi sorazmerno slabe preglednosti tabel smo napravili zbirni prikaz najpomembnejših rastlinskih vrst po njihovih morfoloških značilnostih z navedbo števila vrst in njihovih relativnih deležev prisotnosti na ploskvah (preglednica št. 6).

Preglednica št. 6

PREGLED RASTLINSKEGA INVENTARJA PODRASTNE VEGETACIJE NA PLOSKVAH PO GLAVNIH SKUPINAH VRST

<table>
<thead>
<tr>
<th>NAZIV RAZISKOVALNE</th>
<th>KRAKOVSKI</th>
<th>CIGONCA</th>
<th>HRAŠČICA</th>
<th>BOJANCI</th>
<th>POLOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLOSKVE GOZD</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PREGLED VRST PODRA-</td>
<td>štev. delež</td>
<td>štev. %</td>
<td>štev. %</td>
<td>štev. %</td>
<td>štev. %</td>
</tr>
<tr>
<td>STNE VEGETACIJE</td>
<td>vrst %</td>
<td>vrst</td>
<td>vrst</td>
<td>vrst</td>
<td>vrst</td>
</tr>
</tbody>
</table>

Pomladek drevesnih
vrst
8     8     5     15  8     14  15     17     15  11
Grmovne vrste
8     8     3     9   9    16  8     9     14  10
Zeliščne vrste
76    78    23    70  40    70  62    72    104  74
Glive makromicete
5     5     0     0   0     0   1     1     1     5
Talni mahovi
1     1     2     6   0     0   1     1     1     3

Skupaj
98    100   33   100  57    100  87   100   141  100

Iz preglednice je razvidno, da je vegetacijsko in floristično najbogatejša ploskev Polom, najrevnejša pa Cigonca. Na vseh ploskvah so dosež njejšetvene zeliščne vrste, ki jih je po deležu skoraj 3/4 ne glede na število vrst na ploskvi. Delež lesnatih rastlin se giblje od 15-30%, glive in mahovi pa so na vseh ploskvah razmeroma skromno zastopani ali sploh manjkajo.
## Preglednica št. 1: KRAKOVSKI GOZD

RASTLINSKI INVENTAR GRMOVNEGA, ZELIŠČNEGA IN MAHOVNEGA SLOJA

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<th>Rastlinska vrsta/št. kvadrant</th>
<th>1</th>
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<th>4</th>
<th>5</th>
<th>6</th>
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<td>Athyrium filix - femina</td>
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<td>+ 2</td>
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<td>+ 2</td>
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<td>+ 2</td>
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<td>Crataegus monogyna</td>
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<td>1.1</td>
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<td>Impatiens noli - tangere</td>
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<td>129</td>
<td>Euphorbia verrucosa</td>
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<td>130</td>
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<td>Dactylis glomerata</td>
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<td>132</td>
<td>Galeopsis speciosa</td>
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<tr>
<td>133</td>
<td>Russula sp. (rdeča)</td>
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<td>Arctium sp.</td>
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<td>Praxinus excelsior</td>
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<td>139</td>
<td>Picea abies</td>
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<td>Acer platanoides</td>
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</tr>
<tr>
<td>141</td>
<td>Abies alba</td>
<td></td>
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</tbody>
</table>

41
3.3 ŽIVLJENJSKI SPEKTER RASTLIN NA PLOSKVAH

Opremlitev prisotnih rastlinskih vrst glede na njihovo življenjsko obliko smo povzeli po ELLENBERGOVEM seznamu (1991), ki je za naše razmere sicer nekoliko pomanjkljiv, vendar drugega nismo imeli na voljo. Kljub temu so hrastove ploskve po tem kriteriju dovolj jasno opredeljene, razvrstitev rastlin pa je prikazana v preglednici št. 7.

Preglednica št. 7
PREGLED ŽIVLJENJSKEGA SPEKTRA RASTLINSKIH VRST NA PLOSKVAH

<table>
<thead>
<tr>
<th>NAZIV RAZISKOVALNE PLOSKVE</th>
<th>KRAKOVSKI GOZD</th>
<th>CIGONCA</th>
<th>HRAŠČICA</th>
<th>BOJANCI</th>
<th>POLOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ŽIVLJENJSKE OBLIKE</td>
<td>štev. delež</td>
<td>štev. %</td>
<td>štev. %</td>
<td>štev. %</td>
<td>štev. %</td>
</tr>
<tr>
<td>RASTLIN</td>
<td>vrst</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hemikriptoftiti</td>
<td>38</td>
<td>39</td>
<td>14</td>
<td>43</td>
<td>18</td>
</tr>
<tr>
<td>Geofiti</td>
<td>22</td>
<td>23</td>
<td>5</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td>Nanofanerofiti</td>
<td>7</td>
<td>7</td>
<td>3</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>Fanerofiti</td>
<td>7</td>
<td>7</td>
<td>15</td>
<td>8</td>
<td>14</td>
</tr>
<tr>
<td>Terofiti</td>
<td>7</td>
<td>7</td>
<td>2</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Želnatihamefiti</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Lesnatihamefiti</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Neopredeljene vrste</td>
<td>11</td>
<td>11</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>SKUPAJ</td>
<td>98</td>
<td>100</td>
<td>33</td>
<td>100</td>
<td>57</td>
</tr>
</tbody>
</table>

Razvrstitev rastlinskih vrst se nanaša na položaj njihovih prezimovalnih organov glede na talno površje. Pojmi pomenijo:
- Hemikriptoftiti: Prezimovalni brsti so blizu talnega površja
- Geofiti: Prezimovalni brsti so pod talnim površjem, večinoma v organih z akumuliranimi hranili
- Nanofanerofiti: Grm ali manjše drevo, ki zraste od 0,5-5 m visoko
- Fanerofiti: Drevo, ki lahko zraste več kot 5 m visoko
- Terofiti: Kratkoživa rastlina, ki neugodne čase preživi kot seme
- Želnatihamefiti: Brsti prezimijo večinoma nad tlemi v zavetju snega
- Lesnatihamefiti: Enako kot zgoraj; pritlikav grm, ki le redko zrase višje kot 0,5 m.

Iz preglednice št. 7 je razvidno, da je na vseh ploskvah v povprečju okrog 60% hemikriptoftitov in geofitov, ca 20% grmov in dreves, približno 10% terofitov in hamefitov ter okrog 10% neopredeljenih vrst. Glede na to je vegetacija na ploskvah sorazmerno bogata.
3.4 razvrstitev rastlin po trajnosti listov

Iz že omenjenega seznama (Ellenberg et al. 1991) povzemamo tudi podatke o tem, v katerih letnih časih je pretežni del listov prisotnih rastlin zelen. Navedeni so v preglednici št. 8.

Preglednica št. 8

PREGLED STRUKTURE RASTLINSKIH VRST GLEDE NA TRAJNOST LISTOV

<table>
<thead>
<tr>
<th>NAZIV RAZISKOVALNE PLOSKEV</th>
<th>KRAKOVSKI GOZD</th>
<th>CIGONCA</th>
<th>HRAŠČICA</th>
<th>BOJANCI</th>
<th>POLOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPIS TRAJNOSTI LISTOV</td>
<td>Stev. delj vrst %</td>
<td>Stev. %</td>
<td>Stev. %</td>
<td>Stev. %</td>
<td>Stev. %</td>
</tr>
<tr>
<td>Listi zeleni samo v toplejšem letnem času</td>
<td>53 54</td>
<td>22 67</td>
<td>30 53</td>
<td>57 66</td>
<td>82 58</td>
</tr>
<tr>
<td>Listi zeleni od pred-pomladi do zgodnjega poletja, nato začna veneti</td>
<td>11 11</td>
<td>1 3</td>
<td>8 14</td>
<td>3 2</td>
<td>4 5</td>
</tr>
<tr>
<td>Listi prezimijo zeleni, spomladi poženejo novi</td>
<td>19 20</td>
<td>4 12</td>
<td>14 25</td>
<td>16 18</td>
<td>21 15</td>
</tr>
<tr>
<td>Listi zeleni v vseh letnih časih, pogosto trajajo dlje kot 1 leto</td>
<td>3 3</td>
<td>2 6</td>
<td>3 5</td>
<td>2 2</td>
<td>9 6</td>
</tr>
<tr>
<td>Neopredeljene vrste</td>
<td>12 12</td>
<td>4 12</td>
<td>2 3</td>
<td>8 9</td>
<td>26 19</td>
</tr>
<tr>
<td>SKUPAJ</td>
<td>98 100</td>
<td>33 100</td>
<td>57 100</td>
<td>87 100</td>
<td>141 100</td>
</tr>
</tbody>
</table>

Na vseh ploskvah ima dobra polovica do 3/4 rastlinskih vrst manj obstojne liste. Med ostalimi vrstami so najpogostejše tiste, ki sicer prezimijo z zelenimi listi, vendar jih spomladi nadomestijo z novimi. Ostali dve skupini rastlin sta na ploskvah zastopani z različnim deležem (od 2-14%).

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3.5 RAZVRSTITEV RASTLIN PO SOCILOŠKEM VEDENJU (SISTEMATSKI PRIPADNOSTI)


Pomen teh šifer je naslednji:

- Enomestno število (n.pr. 7.) - Rastlinska vrsta je značilnica skupine razredov
- Dvomestno število (7.3) - Rastlinska vrsta je značilnica razreda oz. nižjih enot, ki spadajo v ta razred
- Tromestno število (7.31) - Rastlinska vrsta je značilnica reda oz. ene od zvez, ki spadajo v ta red.
- Štirimestno število (7.312) - Rastlinska vrsta je značilnica zveze
- Petimestno število (7.312.1) - Rastlinska vrsta je značilnica podzveze
- Žnak x - Rastlinska vrsta ni značilna niti za razred, niti za red ali zvezo in pogosto nastopa celo v različnih skupinah razredov.

Ker se obravnavane raziskovalne ploskve nahajajo najmanj na dveh vrstah rastišč, prikazujemo sistematsko pripadnost njihovega rastlinskega inventarja v dveh preglednicah. Preglednica št. 9 obravnava rastlinski inventar treh ploskev, ki so na primarnih dobovih rastiščih. Iz nje je razvidno, da inajo na vseh treh ploskvah približno polovični delež (če upoštevamo le opredeljene vrste) rastlinske vrste listnatih gozdov, med njimi pa so najpogostejše vrste bukovih gozdov (Fagetalia sylvaticae). Znamenje so zastopane še vrste, ki so odraz dolgotrajnega vpliva človeka in njegovih različnih dejavnosti na gozd (skupini 3 in 5); njihove predstavnike najdemo na vseh treh ploskvah. Vrste mokrih rastišč so pičo zastopane le v Krakovskem gozdu in Cigonci, v Hraščici pa manjko. V Krakovskem gozdu so neznatno zastopane še vrste gozdnih robov, v Cigonci pa vrsta iglastih gozdov; oboje je pravzaprav tudi posledica človekove dejavnosti.
Preglednica št. 9
SOCIOLÓŠKO VEDENJE (SISTEMATSKA PrippADNOST) RASTLINSKIH VRST NA PLOŠKVAH S PRIMARNIM HRASTOVIM RASTIŠČEM

<table>
<thead>
<tr>
<th>ŠIFRA PO SEZNAZMU</th>
<th>KRÁKOVSKI G.</th>
<th>ZIONCA</th>
<th>HRÁŠČICA</th>
<th>SKUPINE RAZREDOV</th>
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<td>1 - Sladkovodna in močvirsko vegetacija</td>
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<td>1 3</td>
<td>3 - Zeliščna vegetacija pogosto vplivanih rastišč</td>
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<td></td>
<td>1 1</td>
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<td>3.521</td>
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<td>1 14</td>
<td>1 8</td>
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<tr>
<td>3.522</td>
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<td>11 14</td>
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<td>2 3</td>
<td>5 - Antropozoogene resave im travišča</td>
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<td>6 - Gozni sorodna zeliščna in grmovna vegetacija</td>
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<td>7.312</td>
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<td>3 3</td>
<td>1 3</td>
<td>7 - Iglasti gozdovi in sorodne resave</td>
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<td>8 - Listnati gozdovi in sorodna grmišča</td>
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</tr>
</tbody>
</table>

Neopr.v. | 27 29 20 61 18 32
Skupaj | 98 100 33 100 57 100

45
RAZREDI

1.5 Phragmitetea - Močvirsko trstje in šašje

1.6 Montio - Cardamineetea - Vegetacija vodnih izvirov
1.7 Scheuchzerio - Caricetea nigrae - Močvirska vegetacija s črnim šašem

3.2 Bidentetea (triptitae) - Združbe blatnih obrežij z mrkačem
3.3 Chenopodietea - Plevelne združbe z metliko in ruderalne združbe
3.5 Artemisietea - Zeliščne združbe na z dušikom bogatih rastiščih

3.8 Agrostietea stoloniferae - Poplavni in vlažni travniki

5.4 Molinio - Arrhenatheretee - Združbe steljniških travnikov in pašnikov

6.1 Trifolio - Geranieta - Zeliščna vegetacija gozdnih robov

7.3 Vaccinio - Piceetea - Kisli iglasti gozdovi in sorodne alpske resave

8.2 Alnetea (glutinosae) - Močvirja z jelšo
8.3 Quercetea roborii (petraeae) - Kisli mešani hrastovi gozdovi
8.4 Querceto - Fagetea - Bogatejši listnati gozdovi

8.6 Rhamno - Prunetea - Grmišča črnega trna, vrb in bezga
1.5.1 Phragmitetalia

3.21 Bidentetalia (tripartitae) 3.211 Bidention (tripartitae)
3.31 Polygono - Chenopodietalia
3.52 Calystegietalia 3.521 Calystegion sepium
3.522 Senecion fluiatilis
3.53 Glechometalia 3.531 Aegopodion podagariae
3.532 Althion
3.81 Agrostietalia stoloniferae 3.811 Agropyro - Rumicion

5.41 Molinietalia (caeruleae) 5.411 Molinion caeruleae
5.42 Arrhenatheretalia 5.415 Calthion

6.11 Origanetalia vulgaris 6.111 Trifolion medii

7.31 Piceetalia 7.312 Linnaeo - Piceion

8.21 Alnetalia (glutinosae) 8.211 Alnion (glutinosae)
8.31 Quercetalia roborii (petraeae)
8.42 Quercetalia pubescenti (petraeae)
8.43 Fagetalia (sylvatica)
8.431 Fagion (sylvatica)
8.4315 Lonicero alpigenae - Fagenion
8.432 Carpinion betuli
8.433 Alno - Ulmion (minoris)
8.61 Prunetalia spinoseae 8.612 Pruno - Rubior ulmifoli

47
Preglednica št. 10 razčlenjuje rastlinski inventar na preostalih dveh ploskvah, za kateri domnevamo, da sta na sekundarnih hrastovih rastiščih. Vidimo, da se delež neopredeljenih vrst v obeh primerih suče okrog ene tretjine. Na obeh ploskvah manjkajo predstavnice mokrih rastišč, delež in razpored značilnih vrst listnatih gozdov pa je podoben kot v prejšnji preglednici. Poleg tega so na obeh objektih s precej podobnim deležem (15 oz. 17%) zastopane tudi vrste, ki odražajo dolgotrajni človekov vpliv na gozd ali vsaj njegovo neposredno bližino (skupine 3,5 in 6). Na ploskvi Polom izstopajo kot specifični kazalci rastiščnih razmer še vrste, ki uspevajo v skalnih razpokah, z enim primerkom pa so prisotne značilnice iglastih gozdov.
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8 - Listovi gozdovi in sorodna grmišča
RAZREDI

3.3 Chenopodietea - Plevelne združbe z metliko in ruderalne združbe
3.5 Artemisietea - Želiščne združbe na z duškom bogatih rastiščih

3.6 Agropyretea - Sušne pionirske združbe s pirnico
3.7 Plantaginietea - Združbe zelišč, odpornih na teptanje

4.2 Asplenietea (trichomanis) - Združbe skalnih razpok in zidov

5.1 Nardo - Callunetea - Resave volka in pritlikavih grmov

5.2 Sedo - Scleranthetea - Vrzelasta peščena in kamnita travišča
5.3 Festuco-Brometea - Pusta travišča na apnenčastih tleh

5.4 Molinio - Arrhenatheretea - Steljniški travniki in pašniki

6.1 Trifolio - Geranieta (sanguinei) - Želiščna vegetacija gozdnih robov

6.2 Epilobietea (anguistifoliol) - Vegetacija presvetljenih mest v gozdu

7.3 Vaccinio - Piceetea - Kisli iglasti gozdovi in sorodne resave

8.2 Alnetea (glutinosae) - Močvirna jelševja
8.3 Quercetria robori (-petraeae) - Kisli mešani hrastovi gozdovi

8.4 Querco Fagetea - Bogatejši listnati gozdovi
8.6 Rhamno - Prunetea - Grmišča črnega trna, vrb in bezga
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53
8.61 Prunetalia spinosae

8.63 Sambucetalia

8.614 Berberidion vulgaris

8.631 Sambuco – Salicion capreae
4 KVALITATIVNA ANALIZA VEGETACIJE PO ELLENBERGU ET AL. (1991) S PRIKAZOM STANJA POMEMBEJNIH RASTIŠČNIH DEJAVNIKOV NA RAZISKOVALNIH OBJEKTIH

4.1 Uvodna pojasnila

Teoretična izhodišča metode ekološkega vrednenja rastlinskih vrst po ELLENBERGU et al. (1991) so opisana v uvodnih delih tega poročila (gl. poglavlje 2!). Zato se na tem mestu omejujemo le na izvedbeni, računski del operacije. Zaradi racionalnosti smo se omejili na prikaz izračunavanja srednjih vrednosti rastiščnih dejavnikov na primeru objekta Krakovski gozd, ker predstavljaa dovolj značilen, bogat in pester vzorec. Izračun je prikazan v preglednici št. 11. Poleg navedbe indikacijskih vrednosti za 6 rastiščnih dejavnikov so v preglednici povzeti po istem avtorju še podatki za življenjsko oblikovano trajnost listov in sociološko obnašanje (sistematsko pripadnost) prisotnih rastiščnih vrst, ki smo jih analizirali že v poglavjih 3.3, 3.4 in 3.5. Kljub delnim pojasnilom, ki so navedena že v obrazložitvi metode dela moramo vsebino preglednice dodatno pojasniti še z naslednjimi pripombami:

- Indikacijske vrednosti v oklepaju (5) se nanašajo na ponladek drevesnih vrst v podrasti;

- Znak ~ - Rastlinska vrsta je indikator močne spremenljivosti rastišča v pogledu talne vlage;

- Znak - - Rastlinska vrsta v ELLENBERGOVEM seznamu ni zajeta;

- znak = - Rastlinska vrsta je indikator poplavnega rastišča in uspeva na bolj ali manj redno poplavljenih tleh.

- Oznake v kolonah za življenjsko oblikovo rastlin pomenijo:

  C - Zelenat hamefit
  G - Geofit
  H - Hemikryptofit
  N - Nanofanerofit
  P - Fanerofit
  T - Terofit
  Z - Lesnat hamefit
  Li - Lijana ali vzpenjalka; opira se na druge rastline, vendar korenini v tleh
  Ep - Epifit; raste na nadzemnih organih živih rastlin, vendar praviloma ni zajedalka
  Hp - Polparazit; zajeda žive rastline, a ima zelene liste
  Vp - Parasit; podobno kot zgoraj, vendar je brez listnega zelenila
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Večina zgoraj navedenih pojmov je pojasnjenih v poglavju 3.3, kjer smo to tematiko že obdelali.

- Oznake za trajnost listov v osmi koloni preglednice pomenijo:

I  - Listi so zeleni v vseh letnih časih in pogosto trajajo dlje kot 1 leto

W  - Rastline pogosto prezimijo z zelenimi listi, vendar jih spomladi nadomestijo z novimi

S  - Listi so zeleni samo v toplejšem letnem času

V  - Listi so zeleni od predptomladi do zgodnjega poletja, nato večinoma začnejo veneti.

Tematiko smo že obdelali v poglavju 3.4.

- Oznake za sistematsko pripadnost rastlin v deveti koloni preglednice so obrazložene v poglavju 3.5, kjer je ta tematika tudi obdelana.

4.2 PRIMERJAVA STANJA POMEMBNEJŠIH RASTIŠČNIH DEJAVNIKOV NA PLOSKVAH

Stanje rastiščnih dejavnikov po ELLENBERGOVI metodi smo ugotavljali na dva načina:

a/ globalno, z upoštevanjem vsega rastlinskega inventarja, ki smo ga popisali na hektarski ploskvi ne glede na ožjo lokacijo rastlinskih vrst na njej;

b/ detajlno, z upoštevanjem rastlinskega inventarja ločeno po kvadrantih, na katere je ploskev razdeljena in z izračunavanjem poprečij za celo ploskev.

Prvi način je prikazan v preglednici št. 11, drugi pa v preglednici št. 12, kjer so izračunane srednje vrednosti za svetlobo za izbrani vzorčni objekt.
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Vsota indikacijskih št. | 196 193 167 183 198 215 132 131 195 179 167 176
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Srednja vrednost (m) | 4.7 4.7 4.6 5.1 4.5 4.6 4.5 4.5 4.8 4.7 4.6 4.6

m = 4.7

Prikaz svetlobnih razmer:
1 - Podpovprečne (m = 4.3-4.5)
2 - Povprečne (m = 4.6-4.8)
3 - Nadpovprečne (m = 4.9-5.1)

63
Primerjava stanja rastiščnih dejavnikov po opisanih dveh načinih ugotavljanja je razvidna iz preglednice št. 13.

Preglednica št. 13
PRIKAZ SREDNJIH VREDNOSTI RASTIŠČNIH DEJAVNIKOV NA PŘOUČEVANIH OBJEKTIH

<table>
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* OPOMOBA: Za kontinentalnost srednjih vrednosti po kvadrantih nismo ugotavljali, ker je ta rastiščni dejavnik izrazito globalnega značaja


4.3 ANALIZA STANJA RASTIŠČNIH DEJAVNIKOV NA PLOSKVAH PO KVADRANTIH

V prejšnjem poglavju smo primerjali stanje rastiščnih dejavnikov, izračunanih globalno oz. povprečno za celo ploskvo. Tukaj bomo podali detajlno sliko tega stanja kot rezultat ekološkega vrednotenja rastlinskih vrst, razporejenih na ploskvah po 20x20 m velikih kvadrantih. Prikazano je v preglednicah št. 14-18.

Preglednica št. 14
PRIKAZ SREDNJIH VREDNOSTI ZA SVETLOBO PO KVADRANTIH

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</table>

Vsebina preglednic nam daje predvsem vpogled v homogenost stanja ekoloških dejavnikov na ploskvah. Konkretno je glede svetlobnih razmer najbolj enotna ploskev Polom (srednje vrednosti nihajo za 0,7 stopnje), najmanj pa Cigonca (nihanje znaša 1,2 stopnje svetlobne lestvice). Razpored svetlobe ne kaže značilnih razlik med primarnimi in drugotnimi hrastovimi rastišči.
Preglednica št. 15
SREDNJE VREDNOSTI ZA TOPLOTO PO KVADRANTIH

| Ploskev/   | 1 | 2 | 3 | 4 | 5 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | m |
| kvadrant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| KRAKOVŠKI | 5.3| 5.3| 5.2| 5.4| 5.4| 5.4| 5.7| 5.5| 5.5| 5.3| 5.2| 5.2| 5.2| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4| 5.4 |
| GOD | CIGONCA | 4.7 | 5.0 | 5.0 | 4.7 | 4.7 | 4.7 | 5.0 | 5.0 | 4.7 | 4.7 | 5.0 | 5.0 | 4.7 | 5.0 | 5.0 | 4.7 | 5.0 | 5.0 | 4.7 | 5.0 | 5.0 | 4.7 | 5.0 | 5.0 | 4.7 |
| HRAŠČICA | 5.5 | 5.6 | 5.6 | 5.7 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| BOJANCI | 5.6 | 5.5 | 5.6 | 5.5 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| POLOM | 5.5 | 5.5 | 5.7 | 5.5 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |

Toplotne razmere na ploskvah so bolj izenačene od svetlobnih. Na štirih ploskvah nihajo v mejah med 0,3-0,5 stopnje, le na Cigonci znaša to nihanje celo stopnjo toplotne lestvice.

Preglednica št. 16
SREDNJE VREDNOSTI ZA TALNO VLAGO PO KVADRANTIH

| Ploskev/   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | m |
| kvadrant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| KRAKOVŠKI | 5.5 | 5.8 | 6.0 | 5.8 | 5.9 | 5.8 | 5.9 | 6.0 | 5.7 | 5.4 | 5.8 | 5.8 | 5.7 | 5.8 | 5.7 | 5.8 | 5.4 | 5.5 | 5.8 | 5.8 | 5.7 | 5.8 | 5.8 | 5.7 | 5.8 | 5.7 |
| GOD | CIGONCA | 6.0 | 6.6 | 6.1 | 5.8 | 6.0 | 6.6 | 6.2 | 6.0 | 5.7 | 6.3 | 6.2 | 6.0 | 5.7 | 6.0 | 6.0 | 5.7 | 6.0 | 6.0 | 5.7 | 6.0 | 6.0 | 5.7 | 6.0 | 6.0 | 5.7 |
| HRAŠČICA | 5.3 | 5.2 | 5.2 | 5.2 | 5.3 | 5.6 | 5.4 | 5.3 | 5.2 | 5.3 | 5.3 | 5.2 | 5.2 | 5.4 | 5.4 | 5.3 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| BOJANCI | 5.1 | 5.0 | 5.0 | 5.2 | 5.2 | 5.1 | 5.1 | 5.2 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| POLOM | 5.0 | 4.8 | 4.7 | 4.8 | 4.9 | 4.9 | 4.9 | 4.7 | 4.9 | 4.9 | 5.0 | 4.9 | 4.9 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

Stanje talno vlažnostnih razmer je po svojih osnovnih značilnostih podobno stanju svetlobe in temperature. Tudi v tem pogledu so namreč iste štirje ploskve zelo homogene, z gibanjem srednjih vrednosti od 0,4 do 0,6 stopnje. Le na ploskvi Cigonca je nihanje srednjih vrednosti po kvadrantih večje in znaša 1,5 stopnje lestvice za talno vlogo. Relativno večja vlažnost ploskven primarnih dobovih rastiščih od ostalih se kaže tudi pri detajlni analizi rastišč po kvadrantih.

Največje razlike so na ploskvi Cigonca (do 2,5 stopnje), najmanjše pa na Hraščici (do 0,9 stopnje) v primerjavi s srednjimi vrednostmi na ploskvi Polom, ki je v povprečju in po kvadrantih najmanj vlažna.
**Preglednica št. 17**
**SREDNJE VREDNOSTI ZA TALNO REAKCIJO PO KVADRANTIH**

| Ploskev/ kvadrant | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | m |
|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| KRAKOSKI | 6.7 | 7.0 | 6.9 | 7.0 | 6.8 | 6.7 | 6.8 | 6.9 | 6.8 | 6.7 | 6.8 | 6.9 | 6.8 | 6.8 | 6.7 | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.8 |
| GOZD | 3.5 | 4.2 | 4.0 | 4.0 | 4.7 | 4.2 | 4.0 | 3.7 | 3.5 | 3.3 | 4.1 | 4.4 | 3.9 | 4.0 | 4.0 | 4.2 | 3.3 | 3.8 | 4.0 | 3.9 | 4.1 | 4.0 | 4.5 | 4.2 | 4.5 | 4.0 |
| HRAŠČICA | 6.5 | 6.5 | 6.5 | 6.9 | 7.3 | 7.1 | 7.0 | 6.7 | 7.0 | 6.9 | 7.1 | 7.0 | 6.9 | 7.0 | 7.1 | 7.1 | 6.7 | 7.1 | 7.2 | 7.2 | 7.0 | 6.5 | 7.1 | 6.9 | 7.2 | 6.9 |
| BOJANCI | 6.5 | 6.4 | 6.4 | 5.7 | 5.8 | 6.1 | 5.7 | 6.2 | 5.9 | 6.2 | 5.9 | 6.2 | 6.4 | 6.0 | 5.7 | 6.0 | 6.0 | 5.8 | 6.6 | 6.3 | 4.3 | 6.5 | 6.3 | 6.2 | 6.0 | 6.2 |
| POLOM | 6.8 | 6.8 | 7.1 | 7.0 | 7.1 | 7.1 | 7.0 | 6.7 | 6.9 | 6.7 | 6.6 | 6.7 | 7.0 | 6.9 | 6.8 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.8 |

V pogledu talne reakcije sta najbolj enotni ploskvi Krakovski gozd in Polom (srednje vrednosti varirajo za 0,3 oz. 0,5 stopnje) najprestrezjši pa Cigonca in Bojanci (razlike 1,4 oz. 1,1 stopnje). Ploskev Hraščica je v tem pogledu nekako na sredini med njimi. Podatki preglednice kažejo tudi, da med hrastovimi rastišči ni bistvenih razlik v pogledu talne reakcije. Pri tem izstopajo vrednosti za ploskev Cigonca, ki kažejo na možnost, da na dobovih rastiščih lahko naletimo na tla izredno različne kislosti.

**Preglednica št. 18**
**SREDNJE VREDNOSTI ZA DUŠIK V TLEH PO KVADRANTIH**

| Ploskev/ kvadrant | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | m |
|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| KRAKOSKI | 5.5 | 6.1 | 6.1 | 6.3 | 6.3 | 6.4 | 6.2 | 6.2 | 6.3 | 6.0 | 6.3 | 6.3 | 6.2 | 6.2 | 6.3 | 6.2 | 6.3 | 5.8 | 5.4 | 5.8 | 5.9 | 6.2 | 6.0 | 6.2 | 6.1 |
| GOZD | 5.3 | 5.6 | 4.6 | 5.4 | 4.3 | 6.0 | 4.2 | 4.6 | 5.0 | 4.7 | 5.0 | 5.4 | 4.7 | 4.4 | 4.6 | 4.0 | 4.4 | 4.8 | 4.4 | 4.3 | 4.0 | 4.5 | 5.4 | 4.3 | 5.2 | 4.7 |
| HRAŠČICA | 5.2 | 5.3 | 5.0 | 5.2 | 6.5 | 6.1 | 5.9 | 5.2 | 5.5 | 5.4 | 5.2 | 5.6 | 5.8 | 5.8 | 6.0 | 5.9 | 6.1 | 5.9 | 5.6 | 6.0 | 6.2 | 5.8 | 6.1 | 5.9 | 5.8 | 5.7 |
| BOJANCI | 5.1 | 5.0 | 4.9 | 4.1 | 5.0 | 4.7 | 4.2 | 4.9 | 5.3 | 4.7 | 4.5 | 4.7 | 5.2 | 4.4 | 5.0 | 4.7 | 5.1 | 5.5 | 5.3 | 5.4 | 4.9 | 5.4 | 5.1 | 4.3 | 4.8 | 4.9 |
| POLOM | 5.1 | 4.9 | 4.7 | 4.9 | 4.9 | 5.2 | 5.0 | 4.6 | 4.8 | 5.0 | 5.0 | 5.1 | 5.0 | 5.1 | 5.0 | 5.0 | 5.0 | 5.2 | 5.2 | 5.5 | 5.0 | 5.0 | 5.4 | 5.1 | 5.2 | 5.0 |

Vidimo, da je dušik v tleh najbolj enakomerno razporejen na ploskvi Polom, kjer srednje vrednosti po kvadrantih nihajo za 0,8 stopnje. Na vseh ostalih ploskvah je ta variabilnost večja in znaša med 1,3 in 1,6 stopnje lestvice za vsebnost dušika v tleh.
4.4 CONIRANJ PLOŠKEV GLEDE NA RAZPORED SREDNJIH VREDNOSTI RASTIŠČNIH DEJAVNIKOV PO KVADRANTIH

Zaradi možnosti ugotavljanja medsebojnih odvisnosti ali povezav med obravnavanimi rastiščnimi dejavniki smo vse ploške razdelili glede na višino (velikost) njihovih srednjih vrednosti po kvadrantih na tri območja ali cone:

- na območja, kjer prevladujejo podpovprečne srednje vrednosti;
- na območja s prevladujočimi povprečnimi srednjimi vrednostmi in
- na območja, kjer se grupirajo nadpovprečne srednje vrednosti izbranih rastiščnih dejavnikov.

Pri oblikovanju teh con smo stremljali za njihovo čim večjo vsebinsko uravnoteženostjo (vsaka cona združuje bolj ali manj enako število srednjih vrednosti), upoštevali pa smo seveda velikostni razpon rastiščnih dejavnikov po kvadrantih. Tako prirejena globalna primerjava med ploškvami in rastiščnimi dejavniki na posameznih ploškvah je prikazana na sliki št. 6.
Grafični prikaz stanja rastiščnih dejavnikov na ploskvah

Slika št. 6

**LEGENDA**

- Območja s podpovprečnimi srednjimi vrednostmi rastiščnih dejavnikov
- Območja s povprečnimi srednjimi vrednostmi rastiščnih dejavnikov
- Območja z nadpovprečnimi srednjimi vrednostmi rastiščnih dejavnikov

- Pri klimatskih dejavnikih, t.j. pri svetlobi in toploti je stopnja medsebojnega ujemanja po kvadrantih (ko sta na istem kvadrantu oba dejavnika v enakem vrednostnem območju, n.pr. 1-1 ipd.) naslednja: Krakovski gozd in Bojanci 6 (24%), Hraščica 8 (32%), Polom 15 (60%). Torej se edino na ploskvi Polom kaže rahla povezava med obravnavanimi rastiščnimi dejavnikoma. To potrjuje tudi stopnja njihovega razhajanja (ko sta na istem kvadrantu dejavnika v ekstremnem vrednostnem območju, n.pr. 1-3). Ta je naslednja: Polom 1 (4%), Krakovski gozd 5 (20%), Hraščica 7 (28%), Cigonca 8 (32%), Bojanci 9 (36%).

Povezave med talnimi parametri rastišča so naslednje:

- Primerjava stanja talne vlage in talne reakcije daje naslednje stopnje ujemanja: Bojanci 7 (28%), Polom 8 (32%), Cigonca in Hraščica 9 (36%) in Krakovski gozd 10 (40%). To kaže na dokaj rahlo povezavo med proučevanima dejavnikoma, vendar pa se dobro ujema s stopnjo razhajanja, ki je v obratnem sorazmerju s prvo. Za Krakovski gozd in Hraščico je ekstremno na 3 kvadrantih (12%), na Bojancih na 5 (20%) in na Polomu na 6 kvadrantih (24%).

- Primerjava stanja talne reakcije in vsebnosti dušika v tleh nakazuje nekoliko tesnejšo povezavo teh dveh rastiščnih parametrov. Po ploskvah se ujema naslednje število kvadratov: Krakovski gozd 7 (28%), Polom 9 (36%), Cigonca 11 (44%), Bojanci 14 (56%), Hraščica 15 (60%). Razhajanje je obratno sorazmerje ujemanol in znača za Cigonco 1 (4%), za Hraščico in Bojance 2 (8%), za Krakovski gozd 4 (16%) in za Polom 6 (24%).

- Razmeroma najtesnejša povezava - čeprav tudi takaj očitno nezakonita, ker obstaja samo v nekaterih primerih - se nakazuje med talno reakcijo in vsebnostjo dušika v tleh. Ujemanje teh dveh dejavnikov po kvadrantih je naslednje: Cigonca 6 (24%), Hraščica 10 (40%), Bojanci 14 (56%), Polom 16 (64%), Krakovski gozd 17 (68%). Omenjena dejavnika se ekstremno razhajata le na dveh ploskvah: Bojanci na enem kvadrantu (4% površine ploskve) in Cigonca na 7 kvadrantih (28% površine ploskve). Na ostalih treh ploskvah je to razhajanje manjše.

Na osnovi prikazanih podrobnih primerjav stanja rastiščnih dejavnikov ponovno ugotavljamo, da v nobenem primeru ne moremo govoriti o njihovi zakoniti medsebojni soodvisnosti. Temu v prid govori tudi dejstvo, da lahko na podobnih rastiščih zasedamo velika razhajanja, na različnih pa razmeroma visoko stopnje ujemanja posameznih rastiščnih dejavnikov.
5. ANALIZA VEGETACIJE PO KOŠIRJU (1992) IN PRIKAZ UGOĐOVLJENIH EKOLOŠKIH RAZMER NA PLOŠKVAH

5.1 KRATEK OPIS METODE DELA

- Dočim temelji metoda valorizacije gozlov po varovalnem in lesnopravodnem pomenu (KOŠIR 1975) na upoštevanju potencialne naravne vegetacije, upošteva obravnavana metoda individualne ekološke, cenološke in proizvodske lastnosti vsake konkretno fitocenoze ali dela gozda ne glede na pripadnost gozdni združbi ali asociaciji. Po tem postopku obravnavamo torej - podobno kot po ELLENBERGU - realno vegetacijo.

- Metoda temelji na neločljivi trajni povezanosti okolja in rastlin. Zato so kombinacije rastlinskih vrst posebno primerne za indikacijo klimatskih in talnih lastnosti rastišč, ki jih naseljujejo. Gozdne fitocenoze so podobno kot pri ELLENBERGU vrednotene s pomočjo rastiščno indikatorskega pomena rastlinskih vrst, kvaliteta rastišča pa se ocenjuje po razmerah v sinuzijah, v katerih se te optimalno uveljavljajo.

- Vrednosti ekoloških dejavnikov, ki jih je avtor izbral za ocenjevanje rastišč, so razvrščene v kvalitetne stopnje in z valorizacijskimi koeficienti povezane v relativne odnose od najboljših proti najslabšim rastiščem, s stališča ekološke stabilnosti rastišča pa od optimalnih proti ekstremnim rastiščem.

- Pri ocenjevanju rastišč so upoštevani naslednji ekološki dejavniki:
  
  . petrografski substrat
  . oblika humusa in kislost tal
  . globina tal - solum
  . skeletnost oz. kamenitost
  . stopnja vlažnosti rastišča (skupna oskrba z vodo)
  . lokalno klimatske značilnosti

- Kvalitetne stopnje rastiščnih dejavnikov so izražene z valorizacijskimi koeficienti (\( V_j \)), ki so pet ali večstopeniški. Koraki med njimi so enakomerni (1-3-5 itd.) ali neenakomerni (n.pr. za obliko humusa in kislost tal). Vsak rastlinski vrst je ocenjeno rastišče po navedenih rastiščnih dejavnikih. Vrednosti valorizacijskih koeficientov se v okviru vseh dejavnikov istosmerno povečujejo. To pomeni, da se kvaliteta rastišča neke rastlinske vrste z večjim valorizacijskim koeficientom slabša. Seštevek vrednosti vseh šestih rastiščnih dejavnikov daje
relativno kvaliteto rastišča za vsako posamezno rastlinsko vrsto. V tem se KOŠIRJEVA metoda vrednotenja fitocenoz najbolj bistveno razlikuje od ELLENBERGOVE.


- Delež rastlinskih vrst je izražen s pokrovnostjo (delež površine, ki ga pokrivajo) in pogostostjo pojavljanja (številčnostjo) na popisni površini. Za izračun pokrovnosti se uporablja VAN DER MAARELOV koeficient, ki predstavlja ustrezno modifikacijo BRAUN-BLANQUETOVE lestvice za pokravnost rastlinskih vrst (namesto razpona od + do 5 so vrednosti od 0 do 9).

- Ker je številnim rastlinskim vrstam s širšim ekološkim intervalem rastišče ocenjevano po vrednosti ekoloških dejavnikov v različnih sinuzijah, ki se po rastiščnih razmerah bistveno razlikujejo, moramo predhodno določiti, kateri Rₚ rastlinske vrste bomo uporabili za izračun Rₚ fitocenoze. To določimo na osnovi petrografskega substrata in vegetacijske stopnje, ki ju povzamemo iz fitocenološkega popisa. Podatek je naveden v posebni koloni abecednega registra rastlinskih vrst.

- Zaradi širokega ekološkega intervala večine drevesnih vrst se te pri izračunu Rₚ ne upoštevajo. Njihov delež pa se upošteva v recentnem pomladku.

- Uporabo metode omejuje število rastlinskih vrst, ki so vključene v ocenjevanje. Pri tem je bila dana prednost rastlinskih vrst (grmovnim, zeliščnim, mahovom in lišajem), ki se redno pojavljajo v rastlinskih kombinacijah velikopovršinskih in gospodarsko pomembnejših gozdnih združb. Vključene so tudi vrste, ki naseljujejo ekstrema (suha, mokra in kisla) rastišča. Ocenjeno je okoli 544 rastlinskih vrst, od tega 63 vrst mahov. Ker so mnoge rastline ocenjene ločeno po sinuzijah je na voljo skupaj okoli 780 rastiščnih koeficientov rastlinskih vrst.

- Metoda ni prilagojena vrednotenju pašniških ali travniških fitocenoz in zato ni uporabna za valorizacijo stadijev pri zaraščanju opuščenih kmetijskih zemljišč. Pravtako metodološko niso zajete vodne rastline in njihove združbe.

- Metoda je uporabljiva v celotnem naravnem cikličnem razvoju gozdne združbe t.j. od naravnega nastanka preko rasti, regeneracije in umiranja dominantnih drevesnik vrst, ki dajejo združbi osnovi fiziognomski aspekt v vseh fazah. Izjema so le
krajša obdobja po močnih regresijskih vplivih, ki akutno in brutalno prekinejo njen ciklični razvoj (n.pr. goloseki, fertilizacija, nasadi, krčitve ipd.), dokler se v novih konkurenčnih razmerah ne oblikuje z novimi rastiščnimi razmerami usklajena rastlinska kombinacija. Z metodo lahko uspešno spremljamo tudi spreminjanje kvalitete rastišč pri fitocenozah, ki se nahajajo v stadiju recentnih suksesijs zaradi regresijskih vplivov ali v stadijih njihove ponovne progresije.

Za celotni postopek vrednotenja fitocenoz po proizvodnem in ekološkem pomenu je izdelan računalniški program, ki z enkratnim vnosom podatkov omogoča celotno obdelavo.

5.2 PRIMERJAVA STANJA RASTIŠČNIH RAZMER NA PLOSKVAH

V pričujočem poglavju podajamo prikaz stanja rastiščnih razmer na ploskvah v globalnem smislu, skupno za cele ploskev ne glede na njihovo vegetacijsko homogenost. Razvidno je iz preglednice št. 19.

Preglednica št. 19: Povprečne vrednosti $R_k$ in $V_k$ na raziskovalnih ploskvah

<table>
<thead>
<tr>
<th>Ploskev</th>
<th>Rastiščni dejavnik</th>
<th>$R_k$</th>
<th>Substrat</th>
<th>Kislost</th>
<th>Solum</th>
<th>Skelet</th>
<th>Vlaga</th>
<th>Klima</th>
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</table>

Glede na to, da se vrednosti $R_k$ ocenjenih rastlinskih vrst gibljejo v razponu med 1 in 15, moremo ugotoviti, da imajo rastišča vseh treh ploskev na primarnih dobovih rastiščih zelo visok proizvodni potencial. Lahko jih uvrstimo med najboljša v Sloveniji. Nekoliko slabši, vendar še vedno zelo visok proizvodni potencial imata rastišči na ploskvah Bojanci in Polom.

Vrednotenje rastlinske kombinacije izkazuje tudi očitne razlike v petrografskem substratu. V prvih treh primerih so rastišča ploskev na mešanih substratih, v preostalih dveh pa so med kislimi silikati in apnenci.

Kislost tal je na vseh petih ploskvah skoraj povsem izenačena. Oblika humusa je najbližja slabo kisli sprstenini.
Tudi globina tal je z vrednotenjem rastlinskih vrst sorazmerno dobro določena. V prvih treh primerih se gibljejo med zelo globokimi in globokimi, v ostalih dveh pa so že plitvejša in se približujejo srednje globokim tlem.


Po lokalno klimatskih značilnostih spada edino ploskev Cigonca še v najnižji klimatski pas. Ploskvi Krakovski gozd in Hraščica kažeta že rahle klimatske vplive sredogorja, ki so na ploskvah Bojanci in Polom še izrazitejši.

5.3 ANALIZA STANJA RASTIŠČNIH DEJAVNIKOV NA PLOSKVAH PO KVADRANTIH

Podobno kot v poglavju 4.3 tudi na tem mestu podajamo podrobno sliko stanja rastiščnih razmer ločeno po kvadrantih. Prikazano je v preglednicah št. 20-27.

Preglednica št. 20: Povprečne vrednosti za $R_x$ po kvadrantih

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</table>
V pогledu vrednosti $R_v$ je najbolj homogena ploskev Bojanci, kjer je razlika med najmanjšim in največjim $R_v$ le 0,6 stopnje. Na ploskvi Hraščica znaša ta razlika 0,8 stopnje, ra ostalih treh pa 0,9 stopnje. Največjo donosno sposobnost ima rastišče ploskve Hraščica, najmanjšo pa rastišče ploskev Bojanci in Polom. Razlika med njimi znaša 3,6 stopnje ali 24% vrednostne lestvice.

Preglednica št. 21: Povprečne vrednosti za kamnino oz. preperino po kvadrantih

<table>
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</table>

Po kaminskini podlagi imata najenotnejši rastišči ploskvi Krakovski gozd in Polom. Srednje vrednosti tega faktorja nihajo po kvadrantih le za 0,5 stopnje. Na ploskvah Hraščica in Bojanci so ta nihanja večja in znašajo 0,8 stopnje. Največje razlike med kvadranti so na ploskvi Cigonca, kjer povprečne vrednosti nihajo za 1,1 stopnje vrednostne lestvice.

75
Preglednica št. 22: Povprečne vrednosti za obliko humusa in kislost tal

<table>
<thead>
<tr>
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Najhomogenejše rastišče v pogledu oblike humusa in kislosti tal ima ploskev Polom. Največja razlika med kvadranti znaša tu le 0,2 stopnje. Na ploskvah Cigonca in Hraščica je ta razlika 0,4, na ploski Krakovski gozd pa 0,6 stopnje. Največje razlike med kvadranti so na ploskih Bojanci in znašajo 1,2 vrednostne lestvice. Na vseh ploskvah prevladujejo ugodne oblike humusa in zmerna do slaba kislost tal.

Preglednica št. 23: Povprečne vrednosti za globino tal - solum po kvadrantih

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76
Spreminjanje talne globine po kvadrantih znaša na ploskvi Hraščica 0,6, na ploskvah Krakovski gozd in Cigonca 0,7, na ploskvi Polom pa 0,8 stopnje. Najboljša je na ploskvi Bojanci, kjer znaša 1,2 stopnje vrednostne lestvice. Najgloblja tla so na ploskvah Cigonca in Hraščica, nekoliko plitvejša pa na ploskvah Krakovski gozd in Bojanci. Povsod so v mejah med zelo globokimi in globokimi. Najplitvejša so na ploskvi Polcm, vendar so tudi kmanj na meji globokih in srednje globokih tal.

Preglednica št. 24: Povprečne vrednosti za skeletnost oziroma kamenitost tal po kvadrantih

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<th>Ploskev/Kvadrant</th>
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Skeletnost tal se po kvadrantih najmanj spreminja na ploskvi Polom (za 0,6 stopnje), najbolj pa na ploskvah Krakovski gozd in Bojanci (za 1,1 oz. 1 stopnjo).

Ploskvi Cigonca in Hraščica sta približno v sredini med njimi z razlikami med kvadrati do 0,8 stopnje vrednostne lestvice.

Največja talna skeletnost je na ploskvah Krakovski gozd, Bojanci, Polom in Hraščica. Tu so tla v sredini med srednje in močno peščenimi oz. kamenitimi. Le na ploskvi Cigonca je skeletnost manjša; tu so tla slabo do srednje peščena.
Preglednica št. 25: Povprečne vrednosti za stopnjo vlažnosti rastišča po kvadrantih

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Oskrba rastišča z vodo je najbolj enakomerna na ploskvi Polom, kjer znaša največja razlika med kvadrant čez 0,3 stopnje. Nekoliko manj enakomerno oskrbo imajo ploskve Hraščica in Bojanci (razlike so 0,5 stopnje) ter Krakovski gozd (nihanje znaša 0,6 stopnje). Najbolj heterogena v tem pogledu je ploskev Cigonca, na kateri znašajo razlike med kvadrant čez stopnjo vrednostne lestvice.

Glede višine oskrbe z vodo ima vseh 5 proučevanih ploskev zmerno sveža do zmerno vlažna rastišča. Pri tem so zanimiva predvsem rastišča ploskev, na katerih je dob primarna vrsta. KOŠIR jih v pogledu vodnega režima uvršča v prehodno obliko med rastišči s pomanjkljivo in čezmerno oskrbo z vodo; opredeljuje jih kot občasno prevlažena rastišča. Ker ležijo konvavnih ravniških legah s tipičnimi psevdogleji, prihaja v pomladanskih ali jesenskih mesecih do pomanjkanja zraka v globljih, nekoliko pa tudi v zgornjih talnih slojih. V preostalem času vegetacijske periode ustreza razmerje med oskrbo z vodo in zrakom zmerno svežim rastiščem. To je potrvido tudi vrednotenje prisotnih rastlinskih vrst na vseh treh ploskvah (Krakovski gozd, Cigorca in Hraščica).

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6. RAZPRAVA


Po informacijah Gozdove vegetacijske karte Slovenije v merilu 1:100.000 (Biro za gozdarsko načrtovanje, Ljubljana 1974) je potencialna združba ploskev Krakovski gozd, Cigonca in Hraščica gozd doba, belega gabra (in ozkolistnega jesena) - (Querco) Robori-Carpinetum, W Raber 68 in Stellario bulbosae-Carpinetum, Tomazič (29) 60. Potencialna gozdna združba ploskev Bojanci je po tem viru preddinarski nižinski gozd gradna in belega gabra z vlmčkom - Hacquetio-Carpinetum var. Epimedium alpinum, Zorn (68) ms cr.74, na ploskvi Polom pa bukov gozd z gradnem - Querco petraeae-Fagetum KOŠIR (61) 71 s lat. Glede na obstoječo rastlinsko kombinacijo na ploskvah so omenjene opredelitev skladne z dejanskim stanjem pri ploskvah Krakovski gozd, Cigonca in Polom. Rastišče na ploskvi Hraščica odstopa zaradi manjše vlažnosti v smeri potencialne združbe predpanonskega nižinskega gozda gradna in belega gabra - Hacquetio-Carpinetum var. Carex pilosa, KOŠIR 74. Na ploskvi Bojanci skoraj popolnoma manjkanje značilne vrste nižinskih gozdov hrasta in belega gabra, sošča tudi obstoječih vrostah pa je njena potencialna gozdna združba enaka kot na ploskvi Polom, t.j. bukov gozd z gradnem - Querco petraeae - Fagetum KOŠIR (61) 71 s lat., čeprav v floristično precej siromašnejši obliki, ker je - podobno kot Polom - v stadiju sukcesije zaraščanja opuščenih kmetijskih zemljišč, o čemer priča tudi krajevno ime predela, na katerem leži ploskev.


Metodi vrednotenja gozdni rastišč s pomočjo indikacijskih lastnosti rastlinskih vrst, ki smo ju uporabili pri analizi ekoloških značilnosti trajnih raziskovalnih ploskev hrasta, nam dajeta orientacijski vpogled v razmeroma širok spekter rastiščnih dejavnikov na proučevanih objektih. Čeprav seveda ne moreta enakovredno nadomestiti zapleteni in dražjih terenskih meritev, ki nam dajejo konkretne in ne relativnih vrednosti, nam vendarle pomagata oblikovati vsaj približno podobo pomembnejših ekoloških razmer na raziskovalnih ploskvah. Pri tem imata obe metodi svoje boljše in slabše strani.

Za obe metodi - ELLENBERGOVO in KOŠIRJEVO - moremo ugotoviti, da je njuna glavna prednost pred klasičnimi opredelitvami gozdnih rastišč v tem, da sta mnogo bolj ekološko usmerjeni in da uporabljata za vrednotenje dejanski, stvarni rastlinski inventar na izbranih objektih, potencialna pripadnost rastišč pa je pri tem le primerjalnega pomena. Poleg tega mnogo podrobneje - čeprav še vedno v relativnih razmerjih in ne v konkretnih vrednostih - podajata oceno stanja rastiščnih dejavnikov in tako omogočata natančnejše medsebojno diferencijacijo izbranih rastišč po danih ekoloških parametrih. Pri ELLENBERGOVI metodi kvalitativne analize vegetacije je za to na voljo sicer mnogo obširnejše seznam ocenjenih rastlinskih vrst, vendar mcramo vedeti in upoštevati, da so njihove indikacijske vrednosti prvotno določene v Nemčiji in Švicir ter zato ne morejo biti povsem prilagojene našim ekološkim razmeram. Poleg tega v seznamu manjkajo mnoge specifične rastlinske vrste naših gozdnih rastišč (npr. mnoge t.i. ilirske in tudi druge vrste). Pri tem bi nam bil v dragoceno pomoč dopolnjeni in prilagojeni seznam, ki so ga izdelali madžarski fitocenologi, vendar nam ni bil dosegljiv; podoben lastni seznam pa trenutno sestavljajo tudi botaniki dunajškega Botaničnega inštituta. Pri nas za kaj podobnega še ni bilo resnejših pobud.

Nasprotno od ELLENBERGOVEGA je KOŠIRJEV register ocenjenih rastlinskih vrst številčno precej skromnejši, vendar pa vsebuje predvsem tipično gozdne rastline, ki uspajajo v najpogostejših gozdnih združbah našega ozemlja. To predstavlja za našo stroko vsekakor veliko prednost.

Izbor ekoloških oz. rastiščnih dejavnikov, ki jih dobimo kot rezultat vrednotenja prisotnih rastlinskih vrst je pri obeh avtor- jih dokaj različen. Deloma se ujema v treh parametrih: v talni
reakciji, talni vlagi in klimatskih razmerah. Primerljivost rezultatov omenjenih treh dejavnikov bomo natančneje analizirali ob koncu tega poglavja. Međtem ko se zdi spektter ocenjenih rastiščnih dejavnikov po ELLENBERGU smiselnejši od KOŠIRJEVEGA, pa je metoda slednjega za našo stroko privlačnejša predvsem zato, ker omogoča izračun rastiščnega potenciala domala za sleherno gozdno rastišče in je temu cilju pravzaprav podrejen celotni analitični del metodologije.

Šibkeja stran obeh metod - čeprav je povsem objektivne narave - se pokaže v primerih, kadar analiziramo vegetacijske popise z zelo skromnim številom vrst ali tedaj, ko mnogo vrst v seznama manjka, t.j. niso ocenjene. Domnevamo, da zanesljivost oz. kakovost dobljenih rezultatov tedaj ne more biti enaka takrat, kadar analiziramo floristično bogate terenske posnetke. Na podobne primere smo naleteli tudi v naši raziskavi.

Rezultate vrednotenja rastlinskih vrst, ki smo jih prikazali v prejšnjih dveh poglavjih lahko preverimo le s podrobnimi meritvami izbranih ekoloških dejavnikov na ploskvah. Načelo je možno o njih razpravljati tudi na osnovi dodatnih informacij, ki smo jih zbrali na teh objektih. Glede prikazanega stanja rastiščnih dejavnikov po ELLENBERGU moremo ugotoviti naslednje:

- Dejansko stanje topotnih in svetlobnih razmer je možno ugotoviti le z ustreznimi meritvami na rastišču. Dodatnih informacij o teh dveh dejavnikih nismo zbirali.

- Kontinentalnost je v obravnavani metodi opredeljena zelo široko in je prilagojena evropskemu prostoru. Zato morebitne razlike med posameznimi ploskvami verjetno še ne morejo nakazovati dejanskih lokalno klimatskih razmer. Za to bi bilo potrebno izdelati podrobnejše ožje klimatske študije.

- Ocenjeno stanje talne vlage bo možno primerjati z dejanskim, ko bodo znani rezultati pedoloških raziskav na teh objektih. Te so zaenkrat še v teku.

- Podobna ugotovitev velja tudi za rastiščna dejavnika talno reakcijo in dušik v tleh.

- Navzkrižna primerjava stanja nekaterih rastiščnih dejavnikov na ploskvah po kvadrantih je pokazala, da niti med svetlobo in-topoto, niti med tremi talnimi faktozji ni zakonite povezave oz. soodvisnosti, čeprav je v nekaterih primerih rahlo nakazana.

Glede možnosti preverbe ocene stanja rastiščnih dejavnikov po KOŠIRJU ugotavljamo naslednje:
- Oceno vrednosti rastiščnega koeficienta je sicer možno preveriti z različnimi postopki. Zaenkrat pa še nimamo na voljo zanesljivih metod za enostavno ugotavljanje bonitete gozdnih rastišč.

- Ocena stanja kaminske podlage se zelo dobro ujema z dejanskim stanjem tega ekološkega dejavnika na ploskvah. Nahoditev odstopanju v tem pogledu je na ploskvi Polom. Ta ima rastišče z izrazito apnenčasto podlogo, z vrednotenjem vegetacije pa je uvrščena v prehod med kislimi silikati in apnenči. Vendar tudi v tem primeru pri tlotvorbni niso izključeni morebitni stranski vplivi (kisli nanosi ipd.), ki bi se utegnili odraziti na sestavu rastlinske kombinacije na ploskvi:

- Dejansko stanje oblike humusa in kislosti tal, taine globine, skeletnosti oz. kamenitosti tal ter stopnje vlažnosti rastišča bo možno korigirati s pomočjo ustreznih rezultatov pedoloških razisk, podobno kot v primeru vrednotenja vegetacije po ELLENBERGU. V tem oziru so na videz najočitnejša razhajanja med ocenjenim in dejanskim stanjem pri skeletnosti oz. kamenitosti tal, predvsem če upoštevamo površinsko kamenitost tal. Skeletnost tal je po oceni le na eni ploskvi majhna do srednja, na štirih pa srednja do močna. Dejansko je na štirih ploskvah površinska kamenitost neznatna oz. neopazna, le na ploskvi Polom apnenčne skale pokrivajo od 10% do 70% talne površine, ocenjeno po kvadrantih. Ob tem seveda ne vemo natančno, kaj razume avtor pod pojmom skelet v tleh.

Podobno dilemo vzbujata ocena klimatske značilnosti rastišča. Vrednostna lestvica za ta dejavnik je sicer zelo groba, vendar je spričo lege treh ploskov v izrazito ravninskem svetu in preostalih dveh v spodnjem pasu grijčevanta sveta težko sprejemljiva ocena, ki eno samo rastišče uvršča v najnižjo višinsko stopnjo, ostala štiri pa že v prehodno stopnjo proti sredogorju oz. montanskemu višinskemu pasu.

Ob analizi stičnih rastiščnih parametrov obh mej metod ekološkega vrednotenja vegetacije smo ugotovili naslednje:

- Eden od ekoloških dejavnikov, ki ga sicer vsak na svoj način obravnava oba avtorja, je talna reakcija (ELLENBERG) oz. oblika humusa in kislost tal (KOŠIR). Po prvi metodi je talna reakcija na štirih ploskvah ocenjena kot prehodna med zmerno kislostjo in šibko bazičnostjo, le na ploskvi Cigonca je na prehodu med kislostjo in zmerno kislostjo. Po KOŠIRJO je na istih štirih ploskvah oblika humusa ocenjena kot prehod med zmerno kislo sprsteninasto prhino in slabo kislo sprstenino, na ploskvi Cigonca pa kot slabo kisla sprstenina. Navedene vrednosti so zaradi različnega metodološkega pristopa med seboj sicer težko primerljive, vendar moremo ugotoviti, da rastišče ploskve Cigonca po obelix izračunih odstopa po svojih talnih lastnostih od rastišč ostalih štirih ploskrov. Odstopanje je po prvi metodi večje kot po
drugi. Glede na to lahko govorimo o določeni podobnosti rezultatov obravnavanih dveh postopkov vrednotenja rastlinskih vrst v pogledu talne reakcije oz. kislosti rastišč. Primerjava rezultatov, ki so vsebovani v preglednicah št. 17 in 22 (gl.poglavlje 4.3 in 5.3) pa je pokazala, da je trend nihanja srednjih vrednosti po kvadrantih okrog povprečja za celo ploskev izračunan po obeh metodah, med seboj povsem neusklajen. Odstopanja so istosmerna le na 4 do 6 kvadrantih, pa tudi nasprotnosnoma ne kažejo nobenih zakonitosti. Iz tega moremo sklepati, da sta oba avtorja ocenila indikacijsko vrednost istih rastlinskih vrst sicer podobno, vendar ne povsem enako.

Naslednji rastiščni dejavnik, ki je skupen obema postopkom je talna vlaga (ELLENBERG) oz. stopnja vlažnosti rastišča ali skupna oskrba z vodo (KOŠIR). Po vrednotenju s prvo metodo so rastišča vseh petih ploskev srednje vlažna, rastišči ploskev v Krakovskem gozdu in Cigonci pa relativno vlažnejši od ostalih. KOŠIRJEV postopek daje podoben rezultat - vsa rastišča so zmerno vlažna če zmerno sveža, razlike pa so enake kot v prvem primeru. Torej tudi glede talne vlage lahko govorimo primerljivosti oz. sorodnosti rezultatov obeh metod. Celo trend nihanja srednjih vrednosti po kvadrantih okrog povprečja za ploskev kaže v tem primeru večjo podobnost kot v prejšnjem primeru. Odstopanja so istosmerna na 10 do 17 kvadrantih, vendar različna po ploskvah. Torej tudi v tem primeru ne moremo govoriti o povsem usklajenih kriterijih vrednotenja indikacijskih lastnosti rastlinskih vrst v pogledu talne vlage.

Zadnji rastiščni dejavnik, ki je skupen obema metodama je kontinentalnost (ELLENBERG) oz. lokalno klimatske značilnosti (KOŠIR). Čeprav gre v obeh primerih za vrednotenje soodvisnosti pojavljanja rastlinskih vrst od klimatskih razmer je že iz opredelitev pojmov očitno, da gre v osnovi za dve zelo različni vrednotenji. V prvem primeru pomenijo indikacijske vrednosti rastlinskih vrst oddaljenost od atlantske obale v smeri proti notranjosti kontinenta, v drugem pa so indikacijske vrednosti povezane z višinskimi pasovi in orografskimi posebnostmi rastišč. Zato so rezultati obeh metod seboj primerljivi le z upoštevanjem metodoloških posebnosti obeh postopkov.

7. SKLEP

Analiza rastlinskega inventarja in ekološko vrednotenje rastišč s pomočjo ocene indikacijskih lastnosti rastlinskih vrst sta dala celo vrsto zanimivih podatkov o vegetacijskih in ekoloških značilnostih proučevanih raziskovalnih ploskev hraste. Vrednost oz. verodostojnost teh rezultatov moramo presojati s pridržkom. Obremenjeni so namreč z vsemi pomanjkljivostmi in nedorečenostjo metod, ki smo jih uporabili za njihovo dosego. O tem smo se prepričali tudi s konkretnimi primerjavami. Kljub temu in zaradi nekaterih ugodnih izidov primerjav pričakujemo, da bodo vsaj ck-
virna orientacija in minimalna podlaga za številne dodatne raziskave, ki potekajo v sklopu obširnega projekta o propadanju hrasta pri nas. V bodoče bodo podvrženi številnim in mnogostranskim preverbam, dopolnitvam, primerjavam in konkretizacijam. Glede na vloženi trud pri našem delu menimo, da smo v danih razmerah in v vsemi danes dostopnimi metodami vendarle uspeli podati solidno osnovo za nadaljnje proučevanje zapletene problematike propadanja hrasta v slovenskem gozdnem prostoru.

8. POVZETEK


9. REFERENCE


