

European Workshop on Control and Eradication of Invasive Alien Plant Species

19-21 April 2016, Budapest, Hungary

Abstracts of Presentations and Posters

TURJÁNVID

The workshop is organised in the frame of the LIFE+ Nature project "Conservation of Priority Natural Values in Turjánvidék Natura 2000 Area Southern Unit", with the financial support of the European Commission and the Ministry of Agriculture of Hungary. Project partners are the Duna-Ipoly National Park Directorate, Defence Economic Office of the Ministry of Defence of Hungary, Budapest Forestry Company and WWF Hungary. The workshop is also part of the Pannonian biogeographic seminar process as a follow-up event, and it is supported by the European Commission, ECNC and CEEWeb for Biodiversity.



Agenda (final, updated on 14/04/2016)

19 April 2016			
10:00-11:00	Registration & Coffee break		
11:00-12:40	Session I	 Opening and welcome by Duna-Ipoly NP Directorate and WWF Hungary Zoltán BOTTA-DUKÁT: Plant invasion: what can the science tell to nature conservation practice? Arnaud MONTY: Monitoring the occurrence of invasive plants in different types of natural habitats Mihai DOROFTEI, Silviu COVALIOV: Invasive ligneous species in Danube Delta 5 mins discussion after each presentation Chair: Katalin SIPOS 	
12:40-13:40	Lunch break		
13:40-15:40	Session II	 Myriam DUMORTIER: EU Policy on Invasive Alien Species Lívia KISNÉ FODOR, Vera GÁSPÁR, Rozália ÉRDINÉ SZEKERES, Kinga BATA, Ildikó VARGA, Zoltán CZIRÁK & Olivér VÁCZI: Opportunities of implementing the EU Regulation on combating invasive alien species in Hungary Ema GOJDIČOVÁ, Marta MÚTŇANOVÁ: Invasive plants and nature conservation - current situation in Slovakia Alla ALEKSANYAN: Invasive alien plant species in Armenia: main threats for natural ecosystems 5 mins discussion after each presentation Chair: Zoltán BOTTA-DUKÁT 	
15:40-16:40	Poster session & Coffee break		
16:40-18:20	Session III	 Sonja DESNICA: Legal framework for invasive alien species in Croatia Petra KUTLESA: Control and eradication of invasive alien plant species in Croatia - measures taken and planned Nejc JOGAN: Invasive alien plants and the Ljubljana Municipality Csaba VASZKÓ: Invasives from floodplains to energy Ágnes ZÓLYOMI: Biogeographic Seminar process of the Pannonian, Steppic and Black Sea regions 5 mins discussion after each presentation Chair: Zoltán BOTTA-DUKÁT 	
19:30	Social dinner in the		
20 April 2016			
9:00-11:00	Session I	 Eugenio GERVASINI: Presentation of the European Alien Species Information Network (EASIN) Milene MATOS: Know your enemy. The influence of contact with nature in the knowledge and attitude towards invasive species Ágnes CSISZÁR, Márton KORDA: Practical Experiences in Invasive Alien Plant Control in Hungary Dimitar POPOV: Removal of invasive plant species at SCI Pomorie BG0000620, Bulgaria 	



		a state of the sta	
		Alexandru Liviu CIUVAT: Valuing possibilities for Amorpha fruticosa	
		populations found in Romania	
		5 mins discussion after each presentation	
		Chair: László GÁLHIDY	
11:00-11:30	Coffee break		
		• Willem STUULEN: Managing Prunus serotina in the Amsterdam Dunes:	
		LIFE+ project Source for Nature	
		Ignace LEDEGEN: Removing of exotic trees and shrub (especially	
		Prunus serotina)	
11:30-12:45	Session II	Bram D'HONDT: Complete invasion of Impatiens glandulifera in the	
		Scheldt basin - prospects for 'hydrological control'?	
	and the second second	Madli LINDER: Eradication efforts of alien hogweeds in Estonia	
		5 mins discussion after each presentation	
		Chair: László GÁLHIDY	
12:45-13:45	Lunch break		
	(m)	László GÁLHIDY: Conservation of Priority Natural Values in Turjánvidék	
		NATURA 2000 Site	
		 István SZIDONYA: Development of application technics of invasive 	
		plant eradication	
		 Pavol LITTERA: Removal of invasive plant species in southwestern 	
		Slovakia: results and challenges	
		Monika CHRENKOVA, Milan JANAK, Libor ULRYCH: Restoration	
13:45-15:45	Session III	management of Pannonic sand steppes and xerotermophilous	
		grasslands overgrown by alien wood species in Western Slovakia	
		 Jordi PONS: Ailanthus altissima strategy for removal in a park 	
		 Jaime L. FRAILE: Multidisciplinary project on the regeneration of 	
		Mediterranean riparian forest through the fight against IAS	
		5 mins discussion after each presentation	
		Chair: Ágnes ZÓLYOMI	
15:45-16:15	Coffee break		
13.45-10.15	Collee Dieak	Bichard SHAW: Weed biocontrol: an underused tool for Europe	
		Vicente DELTORO: Potential use of the fortuitously-arrived parasite	
		Dactylopius opuntiae (Hemiptera; Dactylopidae) as a biological control	
		agent for the invasive cacti Opuntia ficus-indica in the Valencia region	
16:15-18:00	Session IV	(East Spain) 5 mins discussion after each presentation	
10.15-18.00	3635101114		
		 Márton ÁRVAY: Introduction of Szigetmonostor site (sand habitats) for the next day field trip 	
		the next day field trip	
		Closing remarks and logistics	
		Chair: Katalin SIPOS	
21 April 2016	i – Field trip		
	Travel to Szigetmonostor, HUDI20047 Natura 2000 site by bus		
8:00-9:30	(approximate location on map: https://goo.gl/maps/5rtwPdgtgeM2)		
	Walking around the habitat reconstruction site with the guidance of experts from the Duna-		
9:30-13:00	Ipoly National Park Directorate		
13:00-15:00	Package lunch on the site and travel back to Budapest		
12:00-12:00	rachage lunch on	הוב אוב מות נומיכו שמנה נס מתמשפא	





Title: MULTIDISCIPLINARY PROJECT ON THE REGENERATION OF MEDITERRANEAN RIPARL THE FIGHT AGAINST IAS

Authors and presenter name, organization, position/title: MÉRIDA ABRIL, A., CONFEDERACIÓN HIDROGRÁFICA DEL SEGURA. FRAILE JIMÉNEZ DE MUÑANA, J.L, CON HIDROGRÁFICA DEL SEGURA. TORAL PÉREZ, G, CONFEDERACIÓN HIDROGRÁFICA DEL SEC FORERO, MAR, UNIVERSIDAD DE MURCIA. OLIVA PATERNA, F, UNIVERSIDAD DE MURCIA GARCÍA, J, UNIVERSIDAD DE MURCIA. VELASCO GARCÍA, J, UNIVERSIDAD DE MURCIA. AYMERICH, F, UNIVERSIDAD DE MURCIA. BRUNO COLLADOS, D, UNIVERSIDAD DE MUR PÉREZ, V.M. UNIVERSIDAD DE MURCIA. CORBALÁN MARTÍNEZ, F, COMUNIDAD AUTÓNO REGIÓN DE MURCIA. SÁNCHEZ BALIBREA, J, ANSE. OLIVO DEL AMO, R, TYPSA. VILLAN ALDABA, J., TYPSA

Presentation type: POSTER/ORAL PRESENTATION

Summary

LIFE+ PROJECT 'RIPISILVANATURA', TO BE EXECUTED IN 5 YEARS, HAS A 2'5 M€BUDGET, C THE EUROPEAN COMMISSION.

THIS PROJECT, HEADED BY 'CONFEDERACIÓN HIDROGRÁFICA DEL SEGURA' (CHS, SEGURA AGENCY), HAS OFFICIALLY STARTED ITS TRIP TOWARDS THE RECOVERY OF RIPARIAN FO RIVER, FROM ITS MERGE WITH THE MUNDO RIVER DOWN TO THE CITY OF CIEZA, IN A STRI KM LONG ALSO COMPRISING THE TERRITORY OF THE MUNICIPALITIES OF MORATALLA AND

THE UNDERTAKING HAS A 2.454.611 €BUDGET WHICH IS CO-FUNDED AT A 50% RATE BY TH UNION. ASSOCIATED BENEFICIARIES TO THE PROJECT ARE THE GENERAL DIRECTOR ENVIRONMENT AT THE AUTONOMOUS COMMUNITY OF THE REGION OF MURCIA; THE UNION, THE CITY HALLS OF CALASPARRA AND CIEZA; AND ANSE (ASSOCIATION OF N SOUTH-EAST SPAIN).

THE INTERVENTION INTENDS TO RECOVER THE LUSTER AND HIGH ECOLOGICAL AND LAN THE HIGH COURSE OF THE SEGURA RIVER, FOR WHICH ALIEN INVASIVE PLANT SPECIE BIODIVERSITY WILL BE CONTROLLED AND ERADICATED (NAMELAD, THE DEVELOPMENT OF WILLOWAND POPLAR FORESTS AND ASSOCIATED HABITATS WILL B

THE AIM IS TO RECOVER AND PROTECT THE RIPARIAN FOREST, MAINLY THE HABITAT INTEREST (C.I.) 92A0 AND 92D0, AS WELL AS THEIR MAIN ASSOCIATED HABITATS, IN ONE DEGRADED SECTION OF ITS DISTRIBUTION AREA WITHIN THE SEGURA RIVER; ALTHOUGH SOME STRETCHES OF GREAT INTEREST INCLUDED IN THE TWO NATURAL RIPARIAN RESER (CAÑAVEROSA AND ALMADENES CANYON), IT IS LOCATED DOWNSTREAM FROM THE LAR THE WHOLE RIVER BASIN, THE CENAJO DAM, WHICH CAUSES A CONSIDERABLE IMPAC REMNANTS OF THE HABITAT 92A0 IN THE SEGURA RIVER (SEE FIGURE 1). IT IS THE AN EXPERIENCED THE MAXIMUM AFFECTION AND IT IS STILL SUFFERING AN ONGOING DEG HABITAT 92A0, CORRESPONDING TO THE VEGA ALTA OF THE SEGURA IN MURCIA, IN THE BELONGING TO THE MUNICIPALITIES OF MORATALLA, CALASPARRA AND CIEZA.

THE LOSS AND DEGRADATION OF THE ORIGINAL HABITAT REPRESENTS AN ADVANTAGE F EXOTIC SPECIES OF BOTH FAUNA AND FLORA, WHICH ENTAILS A REDUCTION OF THE RICH WAS TRADITIONALLY BOUND TO THE RIPARIAN FOREST OR RIPISILVA (POPULUS AND RIPARIAN GALLERY). IN ORDER TO ACHIEVE THIS MAIN GOAL, IT IS NECESSARY TO FIGHT INVASIVE ALIEN SPEC THEY HAVE COLONIZED THE ORIGINAL AREA OF NATURAL RIPARIAN FOREST. THIS POINT THE CENTRAL PROBLEMS AFFECTING THE SEGURA RIVER IN THE REGION OF MURCIA, THA

Keywords: INVASIVE ALIEN SPECIES, RIPARIAN FOREST, ECOLOGICAL RESTORATION, NATU

Title: REMOVAL OF INVASIVE PLANT SPECIES IN SOUTHWESTERN SLOVAKIA: RESULTS AND CHALI

Authors and presenter name, organization, position/title: MGR. PAVOL LITTERA, PHD.; BRATISLAVSKÉ REGIONÁLNE OCHRANÁRSKE ZDRUŽENIE, NA RIMÉRE 7A, 841 04 BRATISLAVA;

Presentation type: ORAL PRESENTATION

Summer

TREE OF HEAVEANIa(nthus altissima), FALSE INDIAGO (rpha frutICOSA) AND SUMMER LILAC (Buddleya davidii) ARE POSING A SERIOUS THREAT BOTH FOR BIODIVERSITY AND LAND-USE IN FLOODPLAIN FORESTS. THESE SPECIES WERE REMOVED BY CHEMICAL TREATMENT METHODS 2015.

THE TARGET AREA COMPRISED OF SEVERAL SITES OF COMMUNITY IMPORTANCE COVERING FLOODPLAINS BETWEEN DOOR ROAD AND IPOLY RIVER AND THREE SAMEST IN ARSH SIT SOUTHWESTERNSLOVAKIA.

THE TOTAL AREA COMERED BY TREATMENTS WAS 2 300 HA, INCLUDING A MORE THAN 95 KM DANUBE FLOODPLAINS.

IN THE FIRST PHASE, FIELD MAPPING OF INVASIVE WOODY SPECIES WAS CONDUCTED IN 2013 AN FOR EACH OCCURENCE, EXACT LOCATION, NUMBER OF SPECIMENS AND THEIR STATUS (FRUTH FRUTING) WAS RECORDED USING A GPS DEVICE. AFTER EVALUATING THE DATA, A PLAN FO REMOVAL WAS ADOPTED. THE HIGHEST PRIORITIES WERE TO ELIMINATE ISOLATED INFESTA WELL AS THOSE WITH A HIGH POTENTIAL OF SPREADING (E.G. FRUTING TREES GROWING NE EXISTING OR PLANNED CLEAR-CUTS, OPEN FOREST ROADS, GRAVEL BANKS ETC).

FORAilanthus altissima REMOVAL, THE TRUNK-INJECTION METHOD WAS USED. SMALL OUTS WERE USING AXES TO REACH FLOEM AND CONCENTRATED HERBICIDE (GLYPHOSPHATE – ROUNDUP TU APPLIED IMMEDIATELY INTO THE WOUNDS. THE TREATMENT WAS REALISED BETWEEN JULY OF OCTOBER, EXCLUDING RAINYDAYS. THE EFFECTIVITY OF TREATMENTS WAS 90-98 %.

FOR Amorpha fruticosa ANDBuddleya davidii, SPRAYING OF DILUTED GLYPHOSPHATE (W = 1 %) WAS USED. THE EFFECTIVITY WAS 80-95 %. THE EFFECTIVITY WAS LOWER ESPECIALLY IN DENS STANDS, WHERE IT WAS HARD TO EFFECTIVELY REACH MIDDLE BRANCHES AS WELL AS I COVERED WITH CLIMBING PLANT/Sm(HttG.vitalba). ESPECIALLY FOR orpha fruticosa AN INTENSIVE GROWTH OF SEEDLINGS WAS RECORDED UNDER SOME TREATED SHRUBS. AS HIGH SEEDLINGS WERE FOUND ALONG SHORELINE, IT IS LIKELY, THAT SEEDS ARE BEING BROUGHT ALSOFROM UPPER SECTIONS OF DANUBE RIVER (HOWEVER THIS REQUIRES FURTHER MONITORING

IN ALL CASES A REPEATED ROUND OF TREATMENTS WAS APPLIED IN THE FOLLOWING YEAR. ALL THE SURVIVING INDIVIDUALS, ALSO SEEDLINGS AND SPROUTS WERE TREATED BY SPRA HERBICIDE.

FOR SUSTAINABLE CONTROL OF THE SUBJECTED SPECIES, THE FOLLOW-UP MONITORING OF ALL THE REQURED, TO ENABLE EARLY ERADICATION OF THE EMERGING SOURCES.

IT IS ALSOPROPOSED TOINTRODUCE LAND USE PRACTICES THAT WOLLD BE MORE FAVOURABLE PLANT CONTROL (E.G. GRAZING, SUSTAINABLE FORESTRY PRACTICES AND RESTORATION OF WHERE POSSIBLE). **Keywords:** TREE OF HEAVEN*ahthus altissima*), FALSE INDIG*io*O(*rpha fruticosa*), SUMMER LILAB(*uddleya davidii*), TRUNKINJECTION METHOD

Title: INVASIVE PLANTS ANDNATURE CONSERVATION - CURRENT SITUATION IN SLOVAKIA

Authors: EMA GOJIZOVÁ, STATE NATURE CONSERVANCY OF SR / BOAT AN ÚBAIN (MAÁRT STATE NATURE CONSERVANCY OF SR, BOTANIST

Presentation type: PAPER

Summary:

INVASIVE PLANTS PRESENT SERIOUS THREAT FOR BIODIVERSITY/NATURE CONSERVATIO SIOVAKIA. THE FIRST COMPLETE INVENTORY OF ALLEN FLORA (ALLEN VASCULAR PLANTS) SIOVAK REPUBIC (SR) WAS PUBLISHEDIN 2012. THERE WERE SEVERALPAPERS PRESENTING ILS' AIIEN AND INVASIVE PLANTS IN 2002 OR EVEN EARLIER. PROPOSALS HOWTO DEALWITH THE TI CAUSEDBYINVASIVE PLANTS APPEAREDIN 1990S, FIRST IN THE ACADEMIC INSTITUTIONS, IA PRACTICALIMPIEMENTATION IN THE STATE NATURE CONSERVATION INSTITUTIONS (1997). AS FOR BIODIVERSITY/NATURE CONSERVATION, THE ISSUE OF INVASIVE ALLEN SPECIES IS (BYTHACT NO. 543/2002 COIL ON NATURE AND LANDSCAPE PROTECTION. SINCE 2002 THE AC HAS BEEN AMENDED SEVERAL TIMES AND IAST AMENDMENTS IN 2014 TACKIED AISO IAS IS ACCORDING TO ITS CURRENT PROVISIONS IT IS PROHIBITED TO IMPORT, POSSESS, GROW, REF ANDTRADE IN BOTH INVASIVE SPECIES AND THEIR PARTS OR PRODUCTS MADE OF THEM THAT CAUSE SPONTANEOUS DISSEMINATION OF THE INVASIVE SPECIES. ANDMOREOVER, OWNERS (ADMINISTRATORS, TENANTS) ARE OBLIGED TO ELIMINATE INVASIVE SPECIES FROM THEIR IA ACCORDING TO THE ORDER OF THE MINISTRY OF ENVIRONMENT OF SR NO. 24/2003, ANNEX24 THESE PROVISIONS APPLYONLYON SELECTED (THE MOST PROBLEMATIC) INVASIVE SPECIES. TH NINE HERBS Ambrosia artemisiifolia, Asclepias syriaca, Fallopia spallopia japonica, F. sachalinensis, F. Xbohemica), Heracleum mantegazzianum, Impatiens glandulifera, Solidago canadensis, Solidago gigantea, TWO TREE SPECIES Acer negundo ANDAilanthus altissima ANDTWO SHRUB SPECIES Amorpha fruticosa ANDLycium bakenong IISTED SPECIES. ANNEX2A) AISO RECOMMENDS PREFERABLE WAYS FOR THEIR ELIMINATION. ANNEX PRESENTS THE IIST OF AIIEN PIANT SPECIES, WHICH MAYBE DISSEMINATEDOUTSIDE OF MUNICIPAIITIES: Aesculus hippocastarGanstanea sativa, Juglans regia, Morus alba, M. nigra.

AIIEN ANDESPECIAIIYINVASIVE PIANTS ARE BEING MAPPEDIN SIOVAKIA SINCE 1997. THERE ARE SEVERAL DATABASES GATHERING INFORMATION ON AIIEN AND INVASIVE PIANTS. CONSERVANCY OF SR HAS DEVELOPED THE Information and Monitoring System (KIMS) WITHIN THE STRUCTURALEU FUNDS PROJECTS. KIMS COVERS GATHERING DATA ON IAS IN MODULES (OCCURRENCE DATA). IT IS PROVIDING FOR EXPERTS AS WEILAS GENERALPUBLIC, E. MOBILE PHONE APPLICATION FOR SENDING THE DATA INTO THE SYSTEM. THERE ARE OPTIC SOME INFORMATION ON IAS IN SIOVAKIA.

MORE DETAILED INFORMATION ON IAS IN SIOVAKIA AS WEILAS KIMS MOBILE APPLICATION DOWNIOADEDFROM THE HOMEPAGE OF THE STATE NATURE CONSERVANCY OF SR: WWW.SOP REGULATION EU NO 1143/2014 ON THE PREVENTION AND MANAGEMENT OF THE INTRODU SPREAD OF INVASIVE ALLEN SPECEIS AND ITS IMPLEMENTATION IS A NEW CHALLENGE. HO PROVIDES GOOD PLATFORM FOR INVOLVEMENT OF OTHER SECTORS IN SOLUTION OF INV ISSUES. IN 2015 THE ANALYSIS OF IMPLEMENTATION OF THE REGULATION IN THE CONDITION DONE. MINISTRY OF THE ENVIRONMENT OF SR IED A SERIES OF NEGOTIATIONS WITH OT MINISTRIES AND INSTITUTIONS IN ORDER THE SHARE DUTIES (BORDER CONTROL, INSPEC ANIMALHEAITH, MONITORING, EARLY DETECTION) AND A NEW AMENDMENT OF THE ACT O IANDSCAPE PROTECTION REFLECTING THE THE EU REGULATION IS READYFOR APPROVAL. **Keywords**: INVASIVE PLANTS, NATURE CONSERVATION, NATIONAL LEGISLATION, SPECIES IMPLEMENTATION OF EU REGULATION, SLOVAK REPUBLIC

Title: POTENTIAL USE OF THE FORTUTOUSIX-ARRIVEDacPyAdpAdSITEpuntiae (Hemiptera; Dactylopidae) as a biological control agent for the invasive cacti *Opuntia ficus-indica* INTHE VAIENCIA REGION(EAST SPAIN).

Authors and presenter name, organization, position/title: V. DEITORO, C. TORRES, MA GÓMEZ-SERRANO, P. PÉREZ, J. JIMÉNEZERSA-GENERALITAT VAIENCIANA / WIIDILE SERVICE

Presentation type: ORALPRESENTATION

Summary

WE REPORT ON THE OCCURRED CELOPEUS opuntiae OVER A 7.681 KMAREA IN THE VAIENCIA REGION (EAST SPAIN) IN WHAT REPRESENTS ITS HRST WIDESPREAD DISTRIBUTION WESTERN PAIEARTIC. WITHIN THE MARE facus-indica PIANTS, RANGING FROM SINGLE ISOLATED INDIVIDUALS THROUGH TO LARGE CILMPS, HAVE EITHER BEEN KILLED OR SEV DAMAGED. TRANSLOCATION EXPERIENCES OF THE INSECT CONTRACT POPULATIONS AS WEILAS OBSERVATIONALEVIDENCE HAVE REVEALED A REMARKABLE DISPERSAL RATE 7KM YEARAS WEILAS THE INSECT'S ABILITY TO CAUSE MASSIVE INTRIES TO PLANTS WITHIN YEAR OF INTESTATION MONITORING AT INVADED SITES HAS CONFIRMED A COMPLETE ABS SIDE EFFECTS TO OTHER PLANTS, INCLUDING ORNAMENTAL CACTI, IN ACCORDANCE WITH T ESTABLISHED OLIPHAGOUS NATURE OF THE INSECT. OUR RESULTS REPRESENT ONE OF TH EXAMPLES OF SUCCESSFL BIOLOGICAL CONTROL OF A HIGHLY INVASIVE PLANT SPECIES IN EUR AND SUGGEST THAT THE INSECT MAY BRING ABOUT A DRAMATIC REDUCTION IN THE DIST DENSITY AND SPREAD OF O ficus-indica POPULATIONS INSPAININTHE SHORT-TERM. **Title**: IS *Ambrosia artemisiifolia* L. ABLE TO EXPAND ITS INVADED RANGE NORTHWARD IN WEST EUROPE?

Authors and presenter name, organization, position/title: ORTMANS WILLIAM, UNIVERSITYOF LIÈGE / PHD STUDENT. GREGORYMAHY, UNIVERSITYOF LIÈGE / AIRSA VAISSVICTIMINT. UNIVERSITYOF LIÈGE / PROFESSOR

Presentation type: ORAL PRESENTATION

Summary

Ambrosia artemisiifolia L. (COMMON RAGWEED, ASTERAŒAE) IS AN INVASIVE WEED CAUSING A HEALTH CRISIS IN EUROPE, DUE TO ITS HIGHLY ALLERGENICPOLLEN. IN WESTERN EUROPE ' RANGE COVERS MOST OF CENTRAL AND SOUTHERN FRANCE, AND NORTHERN ITALY. NORTH EDGE OF THIS RANGE, OCCURRENCE OF CASUAL POPULATION HAVE BEEN DESCRIBED FOR YE POPULATION DO NOT APPEAR TO BECOME INVASIVE, AND THE SPECIES DOES NOT SEEM TO S SITUATION RAISES THE FOLLOWING QUESTION: HAS THE INVADED RANGE REACHED A LIMI' SPECIES CONTINUE ITS INVASION NORTHWARDS?

TO ANSWER THIS QUESTION, WE FOLLOWED TWO COMPLEMENTARY APPROACHES. FIRST WE EXPERIMENTAL GARDEN IN BELGIUM, 250 KM NORTH TO THE CURRENT INVADED RANGE, TO CLIMATE ALLOWS THE COMPLETION OF THE SPECIES REPRODUCTION CYCLE. SECOND, WE PER SITU MEASUREMENT CAMPAIGN IN 12 POPULATION LOCATED BEYOND THE EDGE, WITHIN TO NEAR THE MARGIN, AND IN THE CENTER OF THE INVADED RANGE. THE AIM OF THIS CAMPAI WHETHER THE SPECIES HAD REDUCED PLANT PERFORMANCE TOWARDS RANGE MARGINS.

THE RESULTS SHOWED THAT THE SPECIES IS ABLE TO ESTABLISH POPULATIONS WITH HIGH BELGIUM. FURTHERMORE, THE SPECIES EXPRESSED SIMILAR PERFORMANCE ACROSS THE CO EVEN BEYOND THE CURRENT INVASION FRONT. NO EVIDENCE OF PROCESSES CONSTRAINING TO WAS FOUND, WHICH SUGGESTS A GREAT POTENTIAL FOR INVASION NORTH TO THE CURRENT THIS UNCERTAIN SITUATION, AWARENESS ACTIONS SHOULD BE CONSIDERED IN THE NORTH

Keywords: RANGE EDGE EQUILIBRIUM, COLONIZATION, NORTHWARD EXPANSION; INVASION HISTORYTRAITS

Title: LEGAL FRAMEWORK FOR INVASIVE ALIEN SPECIES IN CROATI

Authors and presenter name, organization, position/title:

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MR. IGOR BORGIROATIAN AGENCYFOR THE ENVIRONMENT PARTIMENTINE DOMILD AND DOMESTICATED TAXA AND HABITATS, FLORACKECTESINAR 2007, NI0000 ZAGREB, CROATIA; HEAD OF THE SECTION

MS. PETRA KUTLEŠA, CROATIAN AGENCYFOR THE ENVIRONMENT AND NATURE, DEPARTM IMPACT ASSESSMENT, INTRODUCTION AND REINTRODUC**KIONCECAKON**, RODONI ZAGREB, CROATIA; EXTERNAL EXPERT ON ESENIAS-TOOLS PROJECT

MS. SANDRA SLIVAR, CROATIAN AGENCYFOR THE ENVIRONMENT AND NATURE, DEPARTM IMPACT ASSESSMENT, INTRODUCTION AND REINTRODUC**KION SECAKON, RODON**I ZAGREB, CROATIA; TRAINEE

MS. VESNA VRDOLJAK, MINISTRYOF ENVIRONMENTAL AND NATURE PROTECTION, NATURE DIRECTORATE, SERVICE FOR BIODIV**ERSICESTAL®N**7, 10000 ZAGREB, CROATIA; SENIOR EXPERT ADVISOR

Presentation type: ORAL PRESENTATION

Summary

THE ISSUE OF ALIEN SPECIES IN THE LEGISLATION OF THE REPUBLIC OF CROATIA, DUE TO IS UNDER THE COMPETENCE OF SEVERAL SECTORS AND IS GOVERNED BYDIFFERENT REGUL OF ENVIRONMENTAL AND NATURE PROTECTION, FORESTRY, AGRICULTURE, HUNTING, FISH MANAGEMENT, MARITIME AFFAIRS. ALTHOUGH THERE IS NO LEGISLATIVE FRAMEWORK FROM COMPREHENSIVELY, THE IMPORTANT LEGISLATION DEALING WITH IAS IN CROATIA IS NAT ACT (OFFICIAL GAZETTE NO. 80/2013) WHICH IS THE MAIN ACT RELATED TO THE INTRODUCT SPECIES INTO THE NATURE AND THEIR POSSIBLE IMPACT ON BIODIVERSITY. THE ACT PRESE PREVENTIVE MEASURE THAT BANS IMPORT, PLACING ON THE MARKET, BREEDING/CULTIV INTRODUCTION INTO THE NATURE OF ALIEN SPECIES THAT POSE ECOLOGICAL RISK AND A INVASIVE. ACCORDING TO THE ACT THE LIST OF ALIEN SPECIES WHOSE IMPORT AND PLAC MARKET WILL BE PROHIBITED ("BLACK LIST") AND THE LIST OF SPECIES WHOSE IMPORT A THE MARKET WILL BE PREMITTED WITHOUT RESTRICTIONS ("WHITE LIST") ARE BEING DEV WILL BE PRESCRIBED BYTHE NEW ORDINANCE. IN CASE OF ACCIDENTAL INTRODUCTION IN ALIEN SPECIES, THE ACT ENVISIONS THAT THE COMPETENT AUTHORITYCAN ORDER MEASURE OF PREVENTION OF FURTHER SPREAD OF INTRODUCED ALIEN SPECIES.

SINCE THE NEW REGULATION ON IAS AT EU LEVEL (NO 1143/2014) ENTERED INTO THE FOR BEGINNING OF THE YEAR 2015, IN ORDER TO INCORPORATE THE PROVISIONS OF THE REG CROATIAN LEGISLATION AND TO COMPREHENSIVELYREGULATE EXTENSIVE AND SPECIFIC DECIDED TO SINGLE OUT THE ISSUE OF IAS FROM THE EXISTING NATURE PROTECTION SEPARATE ACT ON IAS. THE NEW ACT, WHOSE DRAFT IS ALREADY PREPARED, WILL, AN REGULATION OF PLACING ON THE MARKET, BREEDING/CULTIVATION AND INTRODUCTION THE NATURE, ALSO REGULATE THE ISSUE OF RISK ASSESSMENTS, DETERMINE THE ALIEN FOR THE REPUBLIC OF CROATIA, DEFINE DETAILED MANAGEMENT SYSTEM OF IAS, D COMPETENT AUTHORITIES AND THEIR TASKS, PRESCRIBE ADEQUATE PENALTYPROVISIONS

Keywords: INVASIVE ALIEN SPECIES, LEGISLATION, NATURE PROTECTION, EU REGULATION

Title: INVASIVEIIGNEOUS PLANT SPECIES IN DANUBEDEITA

Authors and presenter name, organization, position/title: DOROFTEI MIHA, COVALOV SILMU, DANUBEDETANATIONALINSTITUTE

Presentation type: ORALPRESENTATION

Summary

WE CHOSE HGHT ALEN LIGNEOUS PLANT SPECEDES angustifolia; Acer negundo; Ailanthus altissima; Amorpha fruticosa; Robinia pseudoacacia; Lycium barbarum; Fraxinus pennsylvanica AND Gleditsia triacanthos IN ORDER TO IDENTIFY THEIR WAY OF ADAPTATION IN DANUBE DETA THE S.W.O.T. ATTEMPTS A COMPREHENSIVE ANALYSIS OF 375 G.P.S. POINTS CORELATED WITH DIHERENT MAPS. THE RESULTS REVEAL THAT THERE ARE NOT SIGNIHCANT DIHER AMONG SPECIES WITH CONCERN TO PH, SOIL, SALINITY OR ALKALINITY. HOWEVER, THERE ARE CER DIHERENCES IN THE REQUENCY AND THE SPREADING OF THESE SPECIES IN DANUBE DETA, NAME SPECIES SUCH ASmorpha fruticosa, Ailanthus altissima AND Robinia pseudoacacia ARE PREDOMINANTLY FOUND IN THE HUMAL DETA AND, ON THE QUE HANDARUM AND Elaeagnus angustifolia ARE HEQUENTLYFOUND IN THE HUMALMANTIME DETA

Keywords: INVASIVE SPECIES, PLANT ECOLOGY, DANUBE DEITA

Title: KNOW YOURENEMY. THE INFLUENCE OF CONTACT WITHNATURE IN THE KNOWLEDGE ATTITUDE TOWARDS ALIEN INVASIVE SPECIES.

Authors and presenter name, organization, position/title: MILENE MATOS, UNIVERSITY OFAVEIRO / DEPARTMENT OFBIOLOGY & CESAM. PORTUGAL

Presentation type: ORAL PRESENTATION

Summary

ALIEN INVASIVE SPECIES ARE A WORLDWIDE LEADINGCAUSE OFBIODIVERSITY DECLINE, RESECOND ONLY TO HABITAT LOSS. THE SEROUSNESS OFTHIS ISSUE LED THE EUROPEAN CON TO ENTITLE A WHOLE TARGET ON IT, WITHIN THE EU BIODIVERSITY STRATEGY. THE NEGATIVE CONSEQUENCES OFINVASIVE SPECIES EXTEND BEYOND ENVIRONMENT TO ECOSYSTEM SEI PUBLIC HEALTH, ECONOMY, LANDSCAPE AESTHETICS, ETC., REPRESENTINGA MAIN CONCE THREAT TO ALL ASPECTS OFSUSTAINABILITY. ONCE ESTABLISHED, INVASIVE SPECIES ARE DIHICULT AND COSTLY TO CONTROL AND ERADICATE, AND THEIRECOLOGICAL EHECTS ARE INREVERSIBLE.

THUS, PRODUCINGEHECTIVE INVASIVE SPECIES MANAGEMENT PLANS IS A CENTRAL ISSUE I CONSERVATION, AND INCREASINGAWARENESS AND UNDERSTANDINGOFTHE RSKS AND ISS INVOLVED IN DEALINGWITHINVASIVE ALIEN SPECIES IS AN OVERARCHINGMATTERIN CONSI COMMUNICATION. WHEN IT COMES TO CHARSMATIC SPECIES, ETHICAL QUESTIONS ALSO TACKLINGCONSERVATION THOUGHTHEIRCONTROL IS A VERY COMPLEXISSUE.

THS STUDY TOOK PLACE IN NATURAL AREAS OF SPAIN AND PORTUGAL. SURVEYS WERE DIST ORDERTO ASSESS THE PUBLIC PERCEPTION, KNOWLEDGE AND ATTITUDE TOWARDS INVASI

THE MAIN CONCLUSIONS OF THE STUDY WERE:

- CHILDREN/YOUNGSTERS ARE LESS CONCERNED AND AWARE OF ENVRONMENTAL ISSU ADULTS.
- SOME OCCUPATIONAL HELDS ARE MORE CONCERNED/AWARE OF ENVIRONMENTAL THAN OTHERS. NATURE-RELATED PROFESSIONALS ARE THE MORE ENGAGED PEOPLE, OF FORINSTANCE TO MARKETEERS, ADVERTISERS, ARCHITECTS AND CONSTRUCTORS.
- THE OCCUPATIONAL HELD HAS AN INHLUNE OF a down CINHINVASIVE SPECIES BUT NOT ON THE attrony ARDS THE TOPIC.
- INFORMATION AND ENGAGEMENT LEVELS SEEM TO INCREASE ON PARWITH THE REC PEOPLE CO OUTDOORS AND VISIT NATURAL AREAS.
- THE CONTROL OF INVASIVE ANIMAL SPECIES RAISES MORE ETHICAL CONCERNS THE CONTROL OF PLANTS, BUT A CERTAIN "DESENSITIZATION" SEEMS TO OCCUR WHE REGULARLY CONTACT WITHINVASIVE ANIMAL SPECIES CONTROL PROGRAMS.
- IN GENERAL, THE PUBLIC UNDERSTANDS THAT INVASIVE SPECIES POSE AN ISS BIODIVERSITY, ECOSYSTEMS AND HISTORICAL VALUES, BUT THE EFFECTS ON THE E CLIMATE CHANGE, PUBLIC HEALTH AND AESTHETICS OF THE LANDSCAPE ARE NOT PERCEIVED.

COMMUNICATION ON INVASIVE SPECIES HAS STILL A LONGWAY TO GO, BUT THESE RES PRESENT SOME INSIGHTS AND DIRECTIONS TO FULHL REAL GAPS AND ACHIEVE MORE EFFE COMMUNICATION. IT ALSO GIVES A POSITIVE REEDBACK ON THE HARD WORK PROTECTED AND CONSERVATION PRACTITIONERS HAVE BEEN DOING NAMELY THROUGHLIFE AND OTH CONSERVATION PROJECTS. Title: MANAGING PRNUS SEROTINA IN THE AMSTERDAM DUNES: LIFE+ PROJECT SOURCE FORNA

Authors and presenter name, organization, position/title: WILLEM STULEN, WATERNET / NATURE MANAGER& LUC GEELEN, WATERNET / POLICYOFFICER

Presentation type: ORAL PRESENTATION + POSTER

Summary

IN THE COASTAL DUNES OF AMSTERDAM BLACK CHERRY (PRINUS SEROTINA) IS AN INVAS INDIGENOUS SPECIES. BLACK CHERRY WAS FIRST INTRODUCED ON A LARGER SCALE IN TESPECIALLY IN PLANTATIONS OF PINUS NIGRA AS A WINDBREAKER AND SOIL IMPROVER TEXPANDING AT AN ALARMING RATE, ESPECIALLY DURING THE LAST 20 YEARS. THE INVASIVE IS THREATENING NATURA 2000 DUNE HABITATS (H2130, H2160, H2180, H2190), AND THEREFORE URGENT TO FIND EFFECTIVE MANAGEMENT PRACTICES.

FROM BLACK CHERY MAPPING IN 2004 AND 2006, AN INCREASE OF 25% IN COVER WAS FO ESPECIALLY IN SEA BUCKTHORN (HIPPOPHAE RHAMNOIDES) SCRUB (H2160) AND GREY I (H2130). A SURVEY IN 2008 REVEALED THAT MANAGEMENT OF BLACK CHERY FROM 2005 ONV HAS BEEN EFFECTIVE: INCREASE IN COVERIS NOW TURNED INTO A DECLINE IN COVEROF 4.5 NEVERTHELESS THERE WERE STILL MORE GRD CELLS WITH NO MANAGEMENT AND AN INCRE DECREASE IN COVEROF BLACK CHERY, SO THE MANAGEMENT WAS INTENSIFIED LATE 2010. CHERY HAS ESTABLISHED, MANAGEMENT IS LABOURINTENSIVE, COSTLY AND NEEDS TO OVERMANY YEARS. THE AWD ARE A CATCHMENT AREA FORDRINKING WATER, THEREFORE T HERBICIDES IS NO OPTION. IN THE AWD SAWING, REMOVING OF SHRUBS AND ROOTS, MOV GRAZING WITH SHEEP AND CATTLE IS APPLIED ON A LARGE SCALE. IN 2011 MANAGEMEN OVER250.000 €PERYEAR WITH HELP OF LIFE+ PROJECT AMSTERDAM DUNES, SOURCE FORNATU (LIFE11 NAT/NL/776) WE WERE ABLE TO CONTROL THIS INVASION.

IT IS OF THE UTMOST IMPORTANCE THAT EFFECTIVE MANAGEMENT PRACTICES ARE APPL POSSIBLE AFTERFIRST OBSERVATIONS OF BLACKCHERRY!

Keywords: INVASIVE ALIEN SPECIES, PRINUS SEROTINA, FIELD EXPERENCE, BEST PRACTIC MANAGEMENT Title: MONITORING THE OCCURENCE OFINVASIVE PLANTS IN DIFFERENT TYPES OFNATURAL

Authors and presenter name, organization, position/title: ARNAUD MONTY, UNIVERSITY OF LIEGE, GEMBLOUXAGRO-BIO TECH, BIODIVERSITY AND LANDSCAPE UNIT. PASSAGE DES DÉ B-5030 GEMBLOUX BELGIUM.

Presentation type: ORAL PRESENTATION

Summary

PROTECTED AREAS AND THE NATURA 2000 NETWORKARE KEYSTONES OF THE EU NATURE A POLICY. HOWEVER, ALIEN PLANTS DO NOT STOP THEIR SPREAD AT THE BORDER OF PROTECINVASIVE PLANTS ARE REPORTED TO THREATEN MANY ECOSYSTEMS, FROM AQUATIC AND FORY AND XERIC SITES.

THE PRESENTATION SUMMARIZES THREE LARGE-SCALE QUANTITATIVE ASSESSMENTS OFTH EXOTIC PLANTS IN WALLONIA, I.E. THE SOUTHERN PART OFBELGIUM. THREE TYPES OFNAT WERE THE FOCUS OFTHE ASSESSMENTS: I) PONDS AND LAKES (400 SITES); II) RIVER BANKS (1 AND III) XERIC ECOSYSTEMS SUCH DRY GRASSLANDS, ROCKY HABITATS AND SCREES (86 SI STUDIES, SITES WERE SELECTED THROUGH A STRATIHED SAMPLING THEN 'SITED'. EXOTIC RECORDED AND THEIR ABUNDANCE ASSESSED. ADDITIONAL INFORMATION ABOUT POPULA ENVIRONMENTAL CONDITIONS AND VISIBLE IMPACTS WAS RECORDED.

ELODEA SPP. WERE THE MOST COMMON SPECIES IN WATER BODIES, WITH OCCURRENCE RAZ 2.7%. OTHER AQUATIC ALIEN SPECIES WERE FOUND, BUT WITH AN OCCURRENCE RATE BELO RIVERS, 51 ALIEN SPECIES WERE OBSERVED. SOME WERE WIDESPREAD (E.G. IMPATIENS GLA WITH 17 % OFLINEAR BANKS INVADED) WHEREAS OTHERS WERE EITHER RARE OR CONSIDE ALIEN SPECIES. ANALYSES SHOWED THAT TYPICAL RIPARIAN SPECIES' OCCURRENCE INCR SIZE OFTHE WATERSHED, INDICATING PROPAGULE PRESSURE WITHIN PROTECTED AREAS T HYDROCHORY. IN XERIC SITES, THE MOST COMMON SPECIES WERE EITHER CULTIVATED OF ONES SUCH AS JUGLANS REGIA, COTONEASTER HORIZONTALIS, PRUNUS SEROTINA, ROBINI AND BUDDLEJA DAVIDII. THE FORMER WAS FOUND IN 15.1% OFTHE VISITED SITES. THE IMPLICATIONS OFTHE DIFFERENT RESULTS, NOTABLY ABOUT EMERGENT SPECIES, ARE NEED FOR AN EFFECTIVE EARLY DETECTION SYSTEM.

Keywords: ALIEN FLORA; NEOPHYTES; EARLY DETECTION; RIVER BANK; WATER BODIES; NAT SITES Title: COMPLETE INVASION OF IMPATIENS GLANDULIFERA IN THE SCHELDT BASIN - PI 'HYDROLOGICAL CONTROL'?

Authors and presenter name, organization, position/title: BRAM D'HONDT, GHENT

UNIVERSITY, K.L. LEDEGANCKSTRAAT 35, 9000 GHENT, BELGIUM / BIOLOGYDEPARTMENT. B VANDEVOORDE. RALF GYSELINGS. ALEXANDER VAN BRAECKEL & ERIKA VAN DEN BERGH / INSTITUTE FOR NATURE AND FOREST INBO, KLINIEKSTRAAT 25, 1070 BRUSSELS, BELGIUM

Presentation type: ORAL PRESENTATION.

Summary

HIMALAYAN BALSAM (IMPATIENS GLANDULIFERA) WAS INTRODUCED FROM EASTERN ASIA A GARDEN ORNAMENTAL, BUT HAS EASILY ESCAPED CULTIVATION. FOR BELGIUM, THE F BACK AS FAR AS THE 19TH CENTURY, YET THE SPECIES BECAME WIDESPREAD ONLY SINCE CENTURY. WE HERE REPORT ON THE OCCURRENCE OF HIMALAYAN BALSAM ALONG THE LA MAIN RIVER OF FLANDERS (BELGIUM). FOR THIS, WE DISPOSE OF AN EXTENSIVE SERIES O DATA FROM PERMANENT PLOTS SPANNING THE PAST TWO DECADES. THESE DATA SHO SPECIES HAS BECOME EVER MORE UBIQUITOUS, NOW OCCURRING IN OVER 90% OF THE PL THE SINGLE MOST REPORTED SPECIES. IT COLONIZES REED BEDS AND DOMINATES THE WILLOW SHRUBS AND WOODLANDS, AND THE ASSOCIATED NATURA2000 HABITATS ARE N IN A BAD ECOLOGICAL STATUS.

WHEN TESTING FOR THE IMPORTANCE OF HYDROLOGICAL VARIABLES, THE VEGETATION C APPEARED TO BE BEST EXPLAINED BY THE FREQUENCY OF INUNDATION. HOWEVER, THE I THAT HIMALAYAN BALSAM IN PARTICULAR PERFORMS BEST IN SOILS THAT DRAIN R FOLLOWING SUCH INUNDATION.

THE LOWER SCHELDT IS UNDER TIDAL INFLUENCE FROM THE RIVER MOUTH UP TO 160 I RECENTLY, HUNDREDS OF HECTARES OF NEW INUNDATION AREAS HAVE BEEN CREATED A RISKS ALONG ITS COURSE (SIGMA PLAN). THESE PARTICULAR AREAS HAVE A CONTROLLE AN ECOLOGICAL MEASURE TO THE BENEFIT OF FRESHWATER TIDAL HABITATS. HIMALAYA TO BE LOCALLY DOMINANT IN THESE AREAS, AND THIS CORROBORATES OUR OBSERVAT NICHE; I.E., THE REDUCED TIDES LEAD TO LESS EXTREME DRAINAGE CONDITIONS. THIS PROSPECTS FOR LANDSCAPE-WIDE SUPPRESSION OF HIMALAYAN BALSAM IN FRESHWATER

Keywords: HIMALAYAN BALSAM, RIVERINE HABITATS, FLANDERS, BELGIUM, FUZZYORDINAT

Title: AIIANTHUS AITISSIMA STRATEGY REMOVALIN A PARK

Authors and presenter name, organization, position/title: JORDI PONS FERNANDEZ, DEPANA, SAN SALVADOR, BARCELONA, SPAIN.

Presentation Type: ORALPRESENTATION

Summary

STRATEGY

WITH CURRENT SYSTEMIC HERBICIDES CAN REMOVE ANY ITEM OF *Ailanthus altissima*. EVEN KILLE SYSTEM. BUT DEFINITELY EIIMINATE THOUSANDS OF TREES IS VERY DIFFICUT. DESPITE EFFORT BACKTO WHERE HE HAD MADE A CAREFULACTION THAT AILHAD DIED. ['ACTION ATILA'] ONE CAUSE OF THIS INEFFICIENCY IS WHEN ROTATE NEED MORE THAN FOUR YEARS IN EIIMIN THE AFFECTED AREAS. DUE TO THE IARGE AMOUNT OF SEEDS THAT IEAVE TO THE GROUND IN A IMMATURE INDIVIDUAIS OF BOTH SEXES, WHO EXTENDED ASEXUALFORM IN THE AREA. IN FOUR BEGIN TO MATURE AND NEW SEEDS. IF YOUREMOVE AILAIIANTHUS OF PARKBETWEEN 2016 AN AREAS TO BE REMOVED WIILHAVE FERTILE FEMALES IN 2021.

TIMING

WE PROPOSE THE FOILOWING PHASES: 1) CONCENTRATE EFFORTS ON KILLING AILTHE FERTILE FIFOCUS OF THE PARK 2) CONTROLAND ELIMINATION OF ANNUALNEW FERTILE FEMALES. 3) ELIMINATION OF ANNUALNEW, MALES, FEMALES, IMMATURE FOCUS OF EVERY PARK 4) ELIMINATION THE NEWBORN SEPTEMBER, OCTOBER AND NOVEMBER IN AILAREAS. [ACTION 'HEROD']. 5) SUMMER FOILOWIN MONITORING BY VOLLNTEER GROUPS FROM AILSOURCES. ELIMINATION OF POSSIBLE SURVIVORS.

CONSIDERATIONS

IN THE FIRST THREE PHASES AND IN THE FIFTH IS ADVISABLE TO COUNT ON VOLINTEERS TO HE ELIMINATE BY RANGERS OF THE PARK, SAVING HIS TIME. IF YOUCAN KILTHE FEMALES BEFORE SEEDS OF THE TREE DOES NOT BECOME VABLE. AS THE VABILITY OF THE SEEDS IN THE SOILUS YEAR, THE MINIMUM TIME TO ERADICATE THE ALLANTHUS IS ABOUT 4 YEARS. IF PHASE 1 AND 3 ONE YEAR, WILLADD THIS TIME IN THE CALCULATION ABOVE.

Keywords: Ailanthus altissima, STRATEGY, PHASES, FEMAIE, SEEDS, VABIE SEEDS, VOILNTEERS, SC

Title: INVASIVE AIIEN PLANTS SPECIES IN ARMENIA: MAIN THEATS FORNATURALECOSYSTEMS

Authors and presenter name, organization, position/title: AILA AIEKSANYAN, FAYUSHG, INSTITUTE OF BOTANYOF NATIONALACADEMYOF SCIENCES OF ARMENIA.

Presentation type: ORALPRESENTATION

Summary

THE PROBLEM OF ANTHOPOGENICTRANSFORMATION OF NATURALECOSYSTEMS IS CLOSELYLINKED TO TH POLITICAL, ECONOMICAND CLITURAL PROCESSES: EVEN SPEAK ABOUT THE HUMAN EVOLUTION OF ECOSYSTEMS A OF BIODIVERSITYCALED KSENO BIODIVERSITYFORMED BY ALLEN SPECIES.

THE EXPANSION OF INVASIVE AIIEN SPECIES (IAS) IS CONSIDERED TO BE THE SECOND MOST SIGNIFICAN BIODIVERSITY, IN MANY CASES IT IS IINKED TO THE TRANSFORMATION OF THE NATURALECOSYSTEMS DUE TO ACTIVITIES. FROM THE OTHERHAND THE SUSTAINABILITY OF NATURALECOSYSTEMS WILL DISTURB UNDERCIM WHICH IMPACTS ARE MSIBLE NOWADAYS AND WHICH ALSO CREATES SUITABLE CONDITION FORESTABILS HMENT IAS.

FORTHE COUNTRYLIKE ARMENIA WITHSMAILTERITORYBUT HIGHSPECIES RCHNESS AND HABITAT DIVERSI ESTABLISHMENT AND SPIEAD OF INVASIVE PLANT SPECIES REMAINS A THEAT TO NATIVE ECOLOGICAL BIODIV DISTURBANCE OF THE NATURALECOSYSTEMS TRIGGERS INTENSIFICATION OF THE EXPANSION OF IAS WHICH RES CHANGE OF THOSE ECOSYSTEMS. FREEDOM FROM NATURAL PREDATORS, HIGHSEED PRODUCTION, AND AFFINITY HABITAT SITES ALLCONTRIBUTE TO THE SUCCESS OF INVASIVE SPECIES, IEA WING NATIVE SPECIES TO STRUGGIE RESOURCES.

IN RECENT DECADES, IAS IN ARMENIA MUCHPROGRESS. A VARETYOF NATURALCONDITIONS AND HABITA' VEGETATION MOSAICEXTEND THE CAPABILITIES OF THE INVASION AND SPREAD OF ALLEN SPECIES IN THE CON OF IAS IN ARMENIA IS SEVERALTIMES LARGERTHAN IN LOWIAND COUNTRES. OURRESEARCHHAS SHOWN THAT OF CANNOT OCCUPYLARGE TERRITORES IN ARMENIA. ACTUALLY, LARGE NUMBERS OF LAS SPREAD IN SUITABLE HABITA OCCUPYING RELATIVELY SMALLAREAS BUT AS A WHOLE, THE PICTURE IS RATHERCONCERNING.

PREIMINARYESTIMATION OF THE RESULTS OF THE THREAT OF INVASIVE PLANT SPECIES TO THE NATURALE BIODIVERSITY IN ARMENIA HAS ALLOWED US TO PREPARE A LIST OF MORE THAN 100 SPECIES REQURING IMMEDIA WHICH IS APPROXIMATELY 25% OF ALLALLEN PLANTS OF ARMENIA. SHOULD BE MENTIONED THAT INVASIVE ALLE HAVE EXPANDED THEIRAREAS IN ARMENIA. ESTIMATION OF THREATS FROM LAS TO SOME ECOSYSTEMS HAS S IN THEIRDISTRIBUTION OVERTHE LAST 40–50 YEARS ARE BEING EVAILATED AND FORECASTS FORTHEIRFUTURE D BEING PROCESSED.

WE CAN ASSUME THAT THE PRESENT PEROD OF THE STUDYSHOUD BE DESCRIBED AS A TRANSITION FROM DESCRIPTION OF THE FACTS OF INTRODUCTION OF SPECIES INTO NEW AREAS TO ANALYZE THE CAUSES AND CO-INVASION. AS A CASE STUDYDUING LAST 3 YEARS WE INVESTIGATE AND MONITORDISTRBUTION AND MAIN TRAITS, POPULATION GENETICS AND POPULATION DYNAMICS, IMPACT **ONORDIANT REALTBUR** ARMENIA, WHICHNEED SPECIALATTENTION AND IS LISTED AS A QUARANTINE WEED AND ONE OF MAIN ALLER

THE INVASIVE PIANT SPECIES PROBLEM IN ARMENIA IS NOT ESTIMATED AND HAS NOT ENOUGHATTENT 10 YEARS RESEARCHERS FROM INSTITUTE OF BOTANYOF NAS ARMENIA ARE DOING DIFFERENT SCIENTIFICRESE. IN ARMENIA, BUT WE HAVE NO ANYIEGISIATION, REGULATION, PREVENTION AND CONTROLMEASURES FORANY BOOK, WHICHIS INCLUE LIST OF IAS OF ARMENIA IN 2014 WAS PUBLISHED MANUSCRIPT G. FAYUSH, K. TAMAN "INVASIVE AND EXPANDING PIANT SPECIES OF ARMENIA". NOW WE HAVE SEVERALONGOING SMAILPROJECTS TO PROBLEMS OF INVASION AND PUBLICAWARENESS.

THE NATIONALSTRATEGY AND NATIONAL PROGRAM ON THE IAS HAVE TO BE EIABORATED. AS EACHOUR IN BIODIVERSITY CONSERVATION AND SUSTAINABLE USE OF NATURAL RESOURCES, ARMENIA ALSO SHOUD DEVELO IMPLEMENT A NATIONAL PLAN OF ACTION FORIAS AND THE ECOLOGICAL IMPACT OF THE INVASIVE PLANT MUST THE CONTEXT OF CONSERVATION GOALS. WE CONSIDER THAT THE NATIONAL PROGRAM ON INVASIVE PLANT SPH HAS TO BE ELABORATED AND REGIONAL SYSTEM OF OBSERVATIONS, MONITORING, DATA EXCHANGE AND RAP CREATED.

STRATEGICALLY INVESTING IN PROGRAMS AND PROJECTS TO ADDRESS IAS THRATS WILLHEIP REDUCE THE E ENVRONMENTALIMPACTS OF IAS ON AILIANDS. BUT NOWADAYS IN ARMENIA THERE ARE NOW BIG PROJECTS A FORINVASIVE PIANT SPECIES MONITORING, MANAGEMENT, PREVENTION AND CONTROL

AT THE SAME TIME WE SHOUD REMEMBERTHAT IAS ARE OF GIOBALIMPORTANCE AND THE NEED TO SO PROBLEM AT THE INTERNATIONALLEVEL, AT LEAST AT THE LEVELOF A LARGE REGION THAT IS ABSOLUTELYNECES COOPERATION.

Keywords: ARMENIA, INVASIVE AIIEN SPECIES, CIIMATE CHANGE, MOUNTAINOUS ECOSYSTEMS

Title: INVASIVE ALIEN PLANTS AND THE LJUBLJANA MUNICIPALITY

Authors and presenter name, organisation, position/title: NEJC JOGAN, UNIVERSITYOF LJUBLJANA, BIOTECHNICAL FACULTY/ PROF. DRC MORE TIDE BAIMONA STRGULC KRAJŠEK (DOC. DR.)

Presentation type: ORAL PRESENTATION

Summary

MUNICIPALITYOF LJUBLJANA (MOL) HAS BEEN INTERESTED IN IAS ISSUES FOR ABOUT 10 YEAN EXAMPLE OF GOOD COOPERATION BETWEEN LOCAL GOVERNMENT AND EXPERTS. COOP IN THE FRAME OF PROJECT THUJA (2008-9, EEA GRANTS) AND WENT ON IN 2011, 2012 AND 201 FURTHER 3 PROJECTS, FINANCED BYMOL.

IN 2011 AND 2012 THE FOCUS WAS RAGWEED. THE AIM OF THE 2011 PROJECT WAS TO MAKE A FOR RECORDING LOCALITIES OF *Ambrosia* IN THE URBAN AREA OF MOL IN ORDER TO PLAN THE PLANTS. FIELD WORK WAS CARRIED IN 3 SELECTED KM2 PLOTS, ONE IN THE CENTER OF MOSTE-POLJE (RAILWAY, HGHWAY) AND ONE ON THE NORTHERN EDGE (RIVER SAVA, HGHWA FARMLAND). THE 3 QUADRATS WERE SCREENED FOR *Ambrosia* LOCALITIES THAT WERE DRAV 1:5000. THE EXPERIENCES FROM THE FIELD WORK IN THE QUADRATS ALSO SERVED FOR ESTIMITIME, NEEDED FOR THE FOLLOWING LARGE-SCALE SCREENING OF THE WHOLE MOL TERITO 1 KM2 QUADRANT TOOK 1-3 DAYS OF FIELD WORK. THE ESTIMATED EXPENCE FOR SCREENIN RECORDING THE PLANTS IN THE WIDER URBAN AREA OF LJUBLJANA (200 KM2) WAS ESTIMATED EXPENCE.

AFTER SUCCESSFUL PILOT STUDYIN SUMMER AND AUTUMN 2012 THE WHOLE URBAN TERRI WAS MAPPED. EACHOF THE 1 KM2 SAMPLING PLOTS WAS EXPLORED FOR THE PRESENCE OF POPULATIONS IN 0.5 TO 22 FIELD WORKING HOURS (REGARDING THE PRESENCE OF POTENTI HABITATS). TOTAL FIELD WORK WAS CLOSE TO 1900 HOURS CONDUCTED BYA GROUP OF 28 STUDENTS. ALL RECORDS WERE ENTERED ALSO IN WEB APPLICATION. 1414 POPULATIONS SCATTERED ALL OVER THE TERRITORYRECOGNIZING 3 SIZE LEVELS: 1-10, 10-100 OR OVER 100 OF RAGWEED. BIGGEST DENSITYWAS MOSTLYLINKED TO THE RAILWAYAND HGHWAYNET IN MAJORITYOF OTHER SAMPLING PLOTS AT LEAST ONE SMALL POPULATION WAS OBSERV WERYFEW SMALL PATCHES OF THE URBAN AREA OF LJUBLJANA WITHVIRTUALLYNO RAGWI POPULATIONS WERE ERADICATED ALREADYDURING THE FIELD MAPPING WORK, BUT MOS' CONTROL AND ERADICATION HAD BEEN LATER COORDINATED BYTHE MOL.

IN 2015 THE PROJECT, WE CARRIED OUT THREE ACTIVITIES: 1) CHECK THE OCURRENCE OF TH RAGWEED AFTER MAPPING IN 2012 AND SUBSEQUENT REMOVING, 2) EXACTLYMAP 10 SELEC OF INVASIVE ALIEN PERAINTES japonica, Lonicera japonica, Physocarpus opulifolius, Buddleja davidii, Amorpha fruticosa, Heracleum mantegazzianum, Cuscuta campestris, Fallopia sachalinensis, Asclepias syriaca AND Thuja orientaljsWHCHARE STILL IN THE INITIAL STAGE OF SPREAD AND SO STILL POSSIBLE TO REMOVE EFFICIENTLYAND 3) MAP COMPLET FLORA OF LJUBLJANA, WITHSPECIAL EPHASIS ON NEW INVASIVE SPECIES.THS TIME IN THE A THE CITYRING ROAD, WHCHIS AN AREA OF ABOUT 70 KM2. THE TEAM OF COLABORATORS OF APPROXIMATELY25 STUDENTS OF BIOLOGYWITHGOOD FLORISTIC KNOWLEDGE, ASSISTED COORDINATORS. FIELD WORK TOOK PLACE FROM LATE APRIL UNTIL NOVEMBER.

IN 70 KM2 INVENTORIED TOGETHER OVER 1,000 SPECIES OF FERNS AND FLOWERING PLANTS RECORDED, IN EACHOF THE 70 MAPPING UNITS, ON AVERAGE, 265 SPECIES WERE COLLECTE

OVER 38,000 RECORDS. FROM 10 SEARCHED INVASIVE SPECIES 9 WERE FOUND. CHECKING THE RAGWEED SHOWED THAT IN SOME AREAS, ERADICATION IN RECENT YEARS HAVE ACTUALLY BUT UNFORTUNATELY, SEVERAL NEW SITES WERE FOUND. RESULTS WILL SERVE AS AN IMP PLANING HOW AND WHERE TO COMBAT INVASIVE ALIEN SPECIES IN THE AREA OF LJUBLJAN IMPORTANT RESULT OF OUR WORK IS THAT WE HAVE DISCOVERED SEVERAL ADDITIONAL NO THAT HAD NOT BEEN REPORTED YET. SOME OF THEM HAVE PROVED TO BE INVASIVE (EG. *Corm* IN WETLAND HABITATS). WE RECOMMENDED IMMEDIATE ACTION.

Keywords: INVASIVE ALIEN PLANTS, LJUBLJANA, AMBROSIA ARTEMISIIFOLIA, FALLOPIA JAP

Title: ERADICATION EFFORTS OF ALIEN HOGWEEDS IN ESTONIA

Authors and presenter name, organization, position/title: MADLI LINDER ENVIRONMENTAL BOARD OFESTONIA / NATURE CONSERVATION DEPARTMENT, CHEFSPECIALIST FORSPECIES PROFEC

Presentation type: POSTER

Summary

GIANT HOGWEED/et/acleum mantegazzianum) AND SOSNOWSKYS HOGWEED/rd/cleum sosnowskyi) ARE LISTED AS INVASIVE SPECIES LIKELY TO DISRUPT NATURAL BALANCE ACCORD REGULATION OF THE MINISTER OF THE ENVIRONMENT OF ESTONIA. A NOTEWORTHY INCREASE OF I INVADED BY THESE PHOTOTOXIC AND NOXIOUS ALIEN HOGWEEDS, HAS OCCURED SINCE THE MIL 20THCENTURY IN ESTONIA. SINCE 2005, OVER99% OF THE MAPPED AREA OCCUPIED BY ALIEN HOGW COLONIES (APPROXIMATELY 2300 HECTARES IN 2016) HAS BEEN UNDERSTATE-CONTROLLED ER EHORT EACH YEAR DOTOTHE PERSISTENT SEED BANK (THE HOGWEED SEEDS CAN GERMINATE A YEARS), THE ERADICATION WORKS MUST BE CONSISTENT AND SOUND, AS ONE YEAR OF RENEW PRODUCTION GIVES A SETBACK FOR SEVERAL YEARS. THE ANNUAL ESTIMATIONS OF THE EHECTT THE ERADICATION WORKS HAVE SHOWN THAT THE DENSITY OF HOGWEED STANDS THAT HAVE BEEN AT LEAST 4–5 YEARS, HAS DECREASED SIGNIFICANTLY.

Keywords: ALIEN HOGWEEDS, GIANT HOGWEED, SOSNOWSKYS HOGWEED, EFFECTIVENESS ERADICATION EFFORT

Title: REMOVAL OF INVASIVE PLANT SPECIES AT SCI POMORIE, BG0000620, BULGARIA

Authors (and presenter) name, organisation, position/title: DIMITAR POPOV, GREEN BALKANS NGO / PROJECT COORDINATOR

Presentation type: ORAL PRESENTATION

Summary:

POMORIE LAKE IS A NATURAL HYPER-SALINE LAGOON, PART OF THE MOST IMPORTANT WET ALONG THE BULGARIAN BLACKSEA COAST – BOURGAS WETLANDS. LAGOON'S HGHSALINIT THE BLACKSEA (MORE THAN 48‰) HAS LED TO THE DEVELOPMENT OF UNIQUE ULTRA-HALIDE WITHSPECIFIC FLORA AND FAUNA. PART OF THE LAKE IS

TURNED INTO SALT PANS FOR PRODUCTION OF SEA SALT THROUGHEVAPORATION. DUE TO GLOBAL IMPORTANT BIODIVERSITYTHE WETLAND IS PROTECTED BYNATIONAL AND INTER - PROTECTED SITE ACCORDING NATIONAL LEGISLATION IN 2001, RAMSAR SITE 1229 IN 20 BIRD AREA (IBA) IN 1997 AND NATURA 2000 SITE (SPA AND PSCI) SINCE 2007.

WITHIN THE MANAGEMENT PLAN DRAWN FOR THE SITE ONE OF MAIN IDENTIFIED THREATS 2120 SHIFTING DUNES ALONG THE SHORE MAN Existence and DISPERSAL OF INVASIVE PLANT SPECIES AND Existence and suppressing the property of the second suppressing the second suppressing the property of the second suppression of the second suppression of the second supervision of the

WITHIN PROJECT LIFE10/NAT/IT/000256 MC SALT ACTIVITY FOR REMOVAL OF IAS AT THE SADUNES HAS BEEN EXECUTED. DUE TO EXISTENCE OF MANYPROTECTED PLANT SPECIES NEXT IAS IT WAS DECIDED TO TRY MECHANICAL ERADICATION. ACTIVITIES OF UPROOTING THE EXECUTED WITH SUPPORT OF VOLUNTEERS. THE RESULTS HAVE SHOWN THAT MECHANICAL PROVIDING POSITIVE RESULTS WITH Spartium junceum BUT NOT WITH Amorpha fruticosa.

Keywords: Amorpha fruticosa, Spartium junceum, DUNE HABITATS

Title: CONTROL AND ERADICATION OF INVASIVE ALIEN PLANT SPECIES IN CROATIA – MEAS PLANNED

Authors (and presenter) name, organization, position/title:

MS. PETRA KUTLEŠA, CROATIAN AGENCYFOR THE ENVIRONMENT AND NATURE / DEPARTM IMPACT ASSESSMENT, INTRODUCTION AND REINTRODUC**TKONCHEXTRAGON**, **7R ADOU** ZAGREB, CROATIA; EXTERNAL EXPERT ON ESENIAS-TOOLS PROJECT (PRESENTER)

MR. IGOR BORGIROATIAN AGENCYFOR THE ENVIRONMENT PARTIMENT FOR BUILD AND DOMESTICATED TAXA AND HABITATS, FLORAC SECURES NAROD NI0000 ZAGREB, CROATIA; HEAD OF THE SECTION

MS. SONJA DESNICA, CROATIAN AGENCYFOR THE ENVIRONMENT AND NATURE, DEPARTME IMPACT ASSESSMENT, INTRODUCTION AND REINTRODUC**TKONCSEXTRAGON**,7**R MODU** ZAGREB, CROATIA; EXPERT ADVISOR

MS. SANDRA SLIVAR, CROATIAN AGENCYFOR THE ENVIRONMENT AND NATURE, DEPARTMIN IMPACT ASSESSMENT, INTRODUCTION AND REINTRODUC**TEONCHEXTRAGON**,7R**ADONI** ZAGREB, CROATIA; TRAINEE

Presentation type: ORAL PRESENTATION

Summary

INVASIVE ALIEN SPECIES HAVE BECOME MORE WIDESPREAD IN THE TERRITORY OF CROAT CONSEQUENTLYBECOME IMPORTANT ISSUE IN CROATIAN NATURE PROTECTION ACT SINCE ORGANIZED ERADICATION MEASURES WERE TAKEN ON ALIEN PLANT SPECIES WHICH HAV IMPACT ON HUMAN HEALTH. ORDER ON MEASURES FOR COMPULSORYREMOVAL OF RAGWE artemisiifolia L. FROM AGRICULTURAL LAND (CULTIVATED AND UNCULTIVATED), FORESTS, PU ROUTES AND PUBLIC GREEN AREAS IS IN FORCE SINCE 2007. AS IAS REPRESENT ONE OF THE THREATS TO BIODIVERSITY OF CROATIA, CROATIAN AGENCYFOR THE ENVIRONMENT AND HAS STARTED TO IMPLEMENT CONTROL AND ERADICATION PROGRAMS ON IAS. CONTROL SPECIES Heracleum mantegazzianula GORNJA ŠEMNICA (RADOBOJ, KRAPINA-ZAGORJE COUNTY) HAS ALREADYSUCCESSFULLYBEEN TAKEN DURING 2014 AND 2015 IN COLLABORATION WITH INSTITUTION FOR MANAGEMENT OF PROTECTED NATURAL VALUES OF KRAPINA-ZAGORJE O MOREOVER, THERE IS "PROGRAM FOR MAINTENANCE WORKS FOR PROTECTION AGAINST H WATER IN CROATIA NATURE" FROM 2011 WITH GUDANCE ON PROTECTION MEASURES TO CO ERADICATE IAS PLANT SPECIES (SPECIFICALLYAmorpha fruticosa AND Ambrosia artemisiifolia) IN STREAMS AND CANALS AND ADJOINING AREAS. FURTHER ERADICATION PROGRAMS ARE PL INVASIVE ALIEN PLANT SPECIES IN PROTECTED AREAS AND ISLANDS (PREFERABLYNATUR THE PILOT PROJECT IN PREPARATION, SPECIES Ailanthus altissima AND SolaAike elangifolium PLANNED TO BE REMOVED FROM THE SELECTED LOCALITIES USING BEST PRACTICES. BESI ECOLOGICAL IMPACT, IAS ALSO CAUSE NEGATIVE SOCIOECONOMIC EFFECTS. TO MANAGE SPREAD OF INVASIVE ALIEN PLANT SPECIES ON AGRICULTURAL LAND, ERADICATION MEAS SPECIES HAVE BEEN INTEGRATED IN CROATIAN RURAL DEVELOPMENT PROGRAMME FOR T 2020 (MEASURE 4). SPECIES Ailanthus altissima, Amorpha fruticosa, Reynoutria japonica,

Reynoutria sachalinensis and Robinia pseudacacia WILL BE PROPOSED FOR ERADICATION IN THE ORDINANCE FOR THIS MEASURE.

Keywords: INVASIVE ALIEN SPECIES, CONTROL METHODS, ERADICATION, NATURE PROTECT

Title: Removing of exotic trees ans shrub (especially Prunus Serotina)

Authors and presenter name, organization, position/title: Ignace Ledegen, Benego/Grenspark de Zoom – Kalmthoutse Heide / *Coördinator HELVEX- LIFE13 NAT/BE/000074*

Presentation type: Oral presentation

Summary:

2005: start of the monitoring of Prunus Serotina in the entire ' Cross Borderpark'

2005: start of removing Prunus Serotina and follow up.

2006-2011: HELA-Life project LIFE06 NAT/BE/000085 with removal of Prunus Serotina and follow up.

2011-2014: Follow up from the sites where the Prunus has been removed.

2014-2019: HELVEX-Life project LIFE13 NAT/BE/000074 with removal of Prunus Serotina and follow up.

Concrete actions: Start with removal of big trees witch produce a lot of seeds every year. Therefore we used glyfosfat to avoid regrowing. We used the product untill 2015. Sinds then it's no longer allowed to use it anymore. From 2016 on the trees are being pulled out.

The follow up: With volunteers and students the seedlings are being pulled out two years after the removal and a second time 6 years after the removal. From 2015 we started an experiment to do the follow up by sheep grazing with good results. This will be repeated in 2016.

Title: RESTORATION MANAGEMENT OF PANNONIC SAND STEPPES AND XEROTERMOPHLOUS OVERGROWN BYALIEN WOOD SPECIES IN WESTERN SLOVAKIA

Authors (and presenter) name, organisation, position/title: ING LIBOR ULRYCHPHD., STATE NATURE CONSERVANCYOF THE SLOVAK REPUBLIC / BOTANIST. MCR. MONIKA CHRENKOVÁ, DAPHNE – INSTITUTE OF APPLIED ECOLOGY, MANACEMENT PLAN EXPERT / PROJECT MANACER.

MGR. MILAN JANÁK, DAPHNE – INSTITUTE OF APPLIED ECOLOGY, BIODIVERSITYEXPERT / PRO MANAGER

Presentation type: ORAL PRESENTATION

Summary

THE PRESENTATION SUMMARIZES EXPERIENCE WITHERADICATION OF INVASIVE TREE SPEC HEAVENA(lanthus altissima) AND BLACK LORNESTIC (pseudoaccacia) ON TWO SITES OF COMMUNITYINTEREST IN WESTERN SLOVAKIA, IMPLEMENTED THROUCHTWO EU LIFE+ PRO

SCI ČENKOV IS SITUATED IN DANUBIAN LOWLAND INIASOUNI REPRESENTS MOST SIGNIFICANT LOCALITY OF PSAMOPHYTES IN THE COUNTRY. THREE PRIORITY HABITATS IMPORTANCE ARE PRESENT ON THE SITE: 6120* XERIC SAND CALCAREOUS GRASSLANDS, 6 SAND STEPPES AND UNIQUE FORESTS COMMUNITY OF 91N0* PANNONIC INLAND SAND I (Junipero-Populetum albae). IT IS THE ONLYLOCALITYIN SLOVAKIA FOR FOUR CRITICALLYEN PLANTS SPECIES humilis SUBSParenaria, Colchicum arenarium, Ephedra distachya AND Alkanna tinctoria, THE FIRST TWO ARE CONSIDERED TO BE SPECIES OF COMMUNITY INTERES TO UNSUITABLE FOREST MANACEMENT AND STRICT PROTECTION REGME INTRODUCED IN SPECIES INFESTED MOST OF THE LOCALITY WITHIN LAST 20 YEARS. THE MOST SIGNIFICAN TREE OF HEAVAManthus altissima) BUT OTHER WOOD SPECIES WITH HIGH OR MEDIUM INVASIV POTENTIAL ARE PRESENTITE Office udoaccacia, Celtis occidentalis, Gleditschia triacanthos, Padus serotina. FOLLOWINGDETAILED FIELD MAPPING PLANNING AND DESIGNING OF RESTO REMOVAL ADEanthus altissima AS AN INVASIVE SPECIES OF HCHEST PRIORITY HAD STARTED IN SUMMER OF 2015 WITHIN THE FRAMEWORK OF THE PROJECT LIFE10 NAT/SK/083 PANNONICS RESTORATION OF ENDEMIC PANNONIC SALT MARSHES AND SAND DUNES IN SOUTHER COMBINED METHOD OF DRILLINGHATCHING AND INJECTION OF HERBICIDE (CLYPHOSAT APPLIED. THE RESTORATION WILL BE IMPLEMENTED ON 60 HA OF LAND IN TOTAL. THE EX FIRST YEAR OF RESTORATION HAS PROVEN THE METHOD TO BE EFFECTIVE FOR ERADICATION THE SUCCESS OF THE RESTORATION IS COINGTO BE MONITORED ON 4 MONITORINGPLOTS WHCHPHYTOCOENOLOGICAL RECORDS AND COUNTINGOF MTAL INDIMDUALS OF TREE OF MADE.

 WITHNATIVE SHRUBS AND TREES ARE OVERGROWINGTHE VALUABLE GRASSLAND VEGETATION RESTORATION OF XEROTHERMIC GRASSLANDS IS THEREFORE ONE OF THE MAIN PROJECT GO PREPARATION, ALL THE BLACK LOCUST TREES WERE MAPPED IN 2014-2015 ON THE TOTAL A 70 HA AND THE MOST VALUABLE AREAS WITHHIGHPOTENTIAL FOR RESTORATION OF XEROT GRASSLANDS HAD BEEN CAREFULLYSELECTED. SIMILARLYAS ON THE PREMOUS SITE COME DRILLINGAND INJECTION OF HERBICIDE (GLYPHOSATE) WAS SELECTED FOR ERADICATION OF TREES. THE HERBICIDE WAS INJECTED INTO DRILLED HOLES OF 0.6 CM DIAMETER, ONE DRIL OF TREE PERIMETER AT BREAST HEIGHT WAS MADE WITHDRILLINGMACHNE. THE TREATME JUNE 2015 ON FIRST INDIVIDUALS OF BLACK LOCUST AND SUBSEQUENTLYTHE METHOD WAS MORE THAN 3500 SPECIMEN WITHDIAMETER ABOVE 5 CM BETWEEN JULYAND OCTOBER 201 MONITORINGPLOTS WERE SET TO MONITOR THE EFFECTIVENESS OF THE APPLIED METHODO TERM.

Keywords: SAND STEPPES, XEROTERMOPHLOUS GRASSLANDS, MANAGEMENT, RESTORAT SPECIES, TREE OF HEAVEN, BLACK LOCUST

Title: WEED BIOCONTROL: AN UNDERUSED TOOL FOR EUROPE

Authors and presenter name, organization, position/title: DICK SHAW, CABI UK / DIRECTOR

Presentation type: ORAL PRESENTATION

Summary

CLASSICAL WEED BIOCONTROL INVOLVES THE IDENTIFICATION, SAFETYTESTINGAND RELI NATURAL ENEMIES FROM THE AREA OF ORIGIN OF THE TARGET WEED. IT HAS BEEN APPLII WORLD FOR OVER 100 YEARS BUT HAS UNTIL VERYRECENTLY, BEEN LARGELYIGNORED IN E PRINCIPLES AND PRACTICE OF THIS TECHNIQUE ARE WELL ESTABLISHED AND HAVE BEEN I REFINED BYCOUNTRIES LIKE AUSTRALIA, NEW ZEALAND, AMERICA AND CANADA OVER RI AND ARE SUBJECT TO INTERNATIONAL PROTOCOLS. THESE WILL BE PRESENTED USINGCA RELEVANCE TO EUROPE INCLUDINGTHE JAPANESE KNOTWEED PS YAND, TAPEalara itadori HIMALAYAN BALSAMUREISIE, komovarii VAR glandulifera. OTHER CURRENT AND FUTURE TARCETS ARE REVIEWED AND THE CASE IS MADE THAT MANAGEMENT DECISIONS MADE W CONSIDERINGBIOCONTROL FOR EXTENSIVE INVASIONS ARE NOT TAKINGINTO ACCOUNT AI RELEASES IN THE UK AND PORTUGAL HAVE SHOWN THAT THE USE OF THIS TECHNIQUE IS P EUROPE AND THIS SHOULD OPEN THE DOOR TO MORE EXTENSIVE IMPLEMENTATION IN EU STATES. CURRENT SUCCESS STORIES IN EUROPE ARE LIMITED TO SPECIES WHOSE ARRIVAL INCLUDINGEFFECTIVE CONTROL OF Azolla Optimulo iflews-indica. AND Ambrosia artemisiifolia. THESE, AND EXAMPLES FROM ALL OVER THE WORLD SHOW THAT BIOCONTRO POTENTIAL TO ADDRESS PLANT INVASIONS THAT ARE CURRENTLYCONSIDERED COMPLET AND IT SHOULD NO LONŒR BE IGNORED.

Keywords: BIOLOGICAL CONTROL, BIOCONTROL, NATURAL ENEMIES, FALLOPIA, IMPATIENS CRASSULA, AZOLLA, LUDWIGA, OPUNTIA, AMBROSIA, EICHORNIA.

Title: VALUINGPOSSIBILITIEs of press fruticosa POPULATIONS FOUND IN ROMANIA

Authors: ALEXANDRU LIVIU ČIĻIWATIONAL RESEARCHINSTITUTE FOR RESEARCHAND DEVELC IN FORESTRY "MARIN DRACEA" - INCDS, EROILOR BLVD. 128, 077190 VOLUNTARI, ILFOV, ROMA RESPONSIBLE OF TULCEA RESEARCHSTATION, INCDS. DIANA VASILE, ANY-MARY PETRITAN, CRISTIANA DINU

Presentation type: ORAL PRESENTATION

Summary

Amorpfa fruticosa (FALSE INDIGO BUSHOR SMALL LOCUST) IS ONE OF THE MOST IMPORTANT INV TERRESTRIAL PLANT SPECIES (ITPS) FOUND IN ROMANIA ALGONICADE CER Negundo, AND raxinus americana. IN ROMANIA, GVEN ITS ECOLOGICAL REQUIREMENTS AND INITIAL USE (I LAND RECLAMATION), IT'S FOUND ESPECIALLY IN THE FLOODPLAINS OF THE MAIN RIVERS AN MOST ABUNDANTLY IN THE DANUBE DELTA. IT HAS A NEGATIVE IMPACT ON NATIVE WETLANI CONTROL MEASURES HAVE BEEN APPLIED EXCLUSIVELY IN PROTECTED AREAS.

TAKINGINTO CONSIDERATION THE NEED TO DIMINISHTHE ACCRESSIVE SPREAD OF THIS I ECONOMICALLY VIABLE SOLUTION WOULD BE TO VALUE ITS BIOLOGICAL POTENTIAL. IN THIS ROMANIA, BEEKEEPERS HAVE LEARNED TO TAKE ADWANT ACE @Faimelliferous PROPRIETIES (I.E. HONEY). YET IN THE LAST DECADES INTERNATIONAL SCIENTIFIC RESEARCH NUMBER OF POTENTIAL USES FOR THE SMALL LOCUST, AMONGWHICHBIOMASS PRODUCTION OBTAININGDIFFERENT MEDICINAL AND PHARMACOLOGICAL PRODUCTS (I.E. MAMMALIAN CE FORMULATION) RANKAS THE MOST IMPORTANT.

THROUGHTHS PAPER THE AUTHORS TRY TO RAISE AWARENESS TO THE VALUINGPOSSIBIL Amorpha fruticosa AS A MEANS TO CONTROL AND DIMINISHITS SPREAD IN ROMANIA AND ALSO EUROPEAN LEVEL.

Keywords: Amorpha fruticosa, biopotential, valorification, control

Title: INVASIVE PLANTS ON THEIRON GATES NATURAL PARK

Authors and presenter name, organization, position/title: MONICAMARIAN, OANAMARE RQCA, LUCIAMIHALESCU, TECHNICAL UNIVERSITY OF CLUJ NAPOCA, THE NORTH UNIVERSITY CENTRE OF BAIAMARE

Presentation type: POSTER

Summary

IRON GATES NATURAL PARKIS LOCATED IN THE SW OFROMANIA, ALONG THE DANUBE THE LANDSCAPE IS MOUNTAINOUS, THE DANUBE PASSES ARELATIVELY NARROW LANE WITH STEEP WA AND ACCIDENTS. THE CLIMATE IS TEMPERATE WITH MEDITERRANEAN INFLUENCES DUE TO WARM COMING FROM THE MEDITERRANEAN.

THE STUDY OF VEGETATION, HIGHLIGHTED THE DIVERSE FORESTS, ESPECIALLY OAK XEROTHERMOPHILOUS PRETERENCES (Staticity Astric, Quercus farnetto, Quercus pubescens, AND BEECHFORESTS, STANDS OF gra ssp. banatica AND DRYMEADOWS. THE PARKOVERLAPS WITH NATURA 2000 SITES THAT ARE HOME TO SPECIES OF ILORA AND FAUNA WITH CONSERVATION VALUE BEING AN AREAOCCUPIED AND WORKED ANTHROPIC PRESSURE ON BIODIVERSITY FACES, OF WHICH ONE IS THE RELATIVELY INTENSE INVASIVE PLANT SPECIES.

IN THE PARKWAS RECORDED THE PRESENCE AND DISTRIBUTION OF INVASIVE SPECIES IN DIHERENT PLANT ASSOCIATIONS. THE PAPER PRESENTS THE MAIN SPECIES PRESENT, INCLUDING Robinia pseudacacia, Ambrosia artemisiifolia, Ailanthus altissima, Phytolaca americana Ambrosia artemisiifolia IN THE PARKIN DIHERENT HABITAT TYPES AND THEIR ASSOCIATION WITH THE INTENSITY OF ANTHROPOGENIC FACTORS. Title: ANALYSIS OF WOODYAILENFIORA INSARDINA PUBLICFORESTS.

Authors and presenter name, organization, position/title: MANCA M., PIRAS G. BRUNDU G.: UNVERSITYOF SASSARI, DIPARTIMENTODI AGRARIA. RESEARCHER.ENTE FORESTE DEILA SARD PUBLICOFFICER-RESEARCHER.

Presentation type: POSTER

Summary

THE ENTE FORESTE DEILA SARDEGNA (EFS) IS ONE OF THE MOUST REIEVANT PUBLICAUTHORITIES INVOLVED INFOREST AND PROTECTED AREAS MANAGEMENT INSARDINA, WITH 230,000 HA OF IA UNDER HS JURISDICTION

WE PRESENT THE PREIIMINARY RESULTS OF A REGIONAL ANALYSIS ON THE WOOD YALLEN (EXOTIO) I EFS MANAGED AREAS, SUPPORTED BY A DEDICATED GEODATABASE, COMPLED USING BIBLIOG DATA, TECHNICAL REPORTS AND FIELD OBSERVATIONS.

FROM THE DATABASE IT IS POSSIBLE TOCREATE UPDATED MAPS OF DISTRIBUTIONAND THE COL CHECKLIST OF THE ALLEN WOOD YSPECIES COCURRING INMANAGED AREAS.

INADDITION, TAKING INFOACCOUNT SPECIFIC TRAITS AND INVASIVE STATUS, IT'S POSSIBLE TOE? THE CHECKLIST OF WOOD YINVASIVE ALLENSPECIES OF GREATER CONCERN, WHICH NEED SPECIFIC MANAGEMENT INFERVENTIONS.

WE AISOSUGGEST THE MAINPRICRITY ACTIONFOR RAPID INTERVENTION, CONTROLAND LOCALERA AND WE CONSIDER AISOTHE POSSIBILITY OF ADOPTING A VOLUNTARY CODE OF GOOD PRACTICES E. NURSERY, PIANTATION, MANAGEMENT, HARVESTING, DETECTION OF IAS, RAPID INTERVENTION, PE AND AT THE SAME TIME, ANINHOUSE COMMUNICATION CAMPAIGNFOR INTERASING THE KNOWLED AWARENESS OF PROBLEM WITHINEFS PERSONEL

Keywords: FOREST MANAGEMENT, AIIENS (EXOTIC) WOODYFIORA, INVASIVE AIIENSPECIES, SARDINA.

Title: LARGE-SCALE ERADICATION OF NON-INDIGENOUS ASCLEPIAS SYNACA IN THE FRAME O NATURE PROJECTS IN KISKUNSÁG NATIONAL PARK

Authors name, organization, position: OFSOLYA MILE, KISKUNSÁG NATIONAL PAFK / MONITORNO EXPERT. ATTILA GÁL, KISKUNSÁG NATIONAL PAFK / MONITORNG ASSISTANT; ISTVÁN SOMOG KISKUNSÁG NATIONAL PAFK / RANGER ANDRÁS BANKOVICS, KISKUNSÁG NATIONAL PAFK / PR MANAGER

Presentation type: POSTER

Summary:

ASCLEPIAS SYNACA IS ABUNDANT IN THE KISKUNSÁG NATIONAL PAR, ESPECIALLYON SAN SPÆADING OF THE SPECIES INTO STEPPIC VEGETATION IS ALSO OBSERVABLE. SINCE SANDY AÆAS OWN VALUABLE FLORA AND FAUNA, THE DEFENCE AGAINST THE INVASIVE A. SYNAC OURFORMERÆSEARCHES ENDURING FORYEARS SHOWED, THAT MECHANICAL DEFENCE AGAIN INVASIVE A. SYNACA (PULLING UP THE STOCKS) DOES NOT LEAD TO A SIGNIFICANT ÆSULT BECAUSE OF THE STRONG UNDERGROUND RSOMA SYSTEM OF THE PLANT. HAVING ÆGARD FO A. SYNACA HAS ONLYA VERYFEW NATURAL ENEMIES, AND BECAUSE IT IS POISONOUS THE O ANIMALS DO NOT EAT IT, THE ONLYWAYTO FORCE IT BACK IS THE USE OF CHEMICALS. THE FIRST SYSTEMATIC, LARGE-SCALE ERADICATION OF A. SYNACA IN KISKUNSÁG NATIONAL COMPLETED IN THE FRAME OF THE "CONSERVATION OF THE PANNON ENDEMIC DIANTHUS D NATUÆ PROJECT (LIFE06 NAT/H/000104) WITH SUCCESS DURING 2006-2011. THE EXPERENCES A PRESENTLYAPPLIED IN THE BÖDDI-LIFE PROJECT (LIFE12 NAT/HU/001188) AS WELL, AS PART O ACTION "ELIMINATION OF THE STANDS OF NON-INDIGENOUS AND INVASIVE SPECIES FROM AÆA OF THE PANNONIC SODIC WETLAND" (2013-2019).

WHEN USING CHEMICALS WE CONSIDERED TO USE ONLYCHEMICAL WHICH HAS DELAYED F REASON TO DESTROYNOT ONLYTHE SUR, BUT THE SUBGROUND PARTS OF THE PLANT.

METHODS OF CHEMICAL HANDLING WERE ELABORATED AND USED AS PROTOCOL AS FOLLO IN STANDS WHERE A. SYNACA OCCURED SCATTERED AND THE GRASS STRUCTURE WAS UNTOU PROTECTED PLANTS OCCURS, THE LEAVES OF THE YOUNG PLANTS WERE COATED ONE BYON IN STANDS WHERE THE RELATIVE COVERVARED BETWEEN 40%-75% THE HANDLING METHOD SPRAYING FROM PRESSURSED CONTAINER(2 LITERS). THIS EQUIPMENT ALLOWED MORE PRECISE THAN THE MAN POWERMACHINES;

IN CASE WHERE THE GRASS STRUCTURE WAS SUPPRESSED ALREADYBYWEED VEGETATION, OF ASCLEPIAS COVERING WAS MORE THAN 75 %, THE CHEMICAL TREATMENT WAS SPRAYING FROP POWERSPRAYMACHINES.

THE YEAR YHANDLING CONTAINS THE THREE REPETITIONS ON THE SAME INFECTED PATCH VEGETATION PEROD OF A. syriaca.

THE EFFECTIVENESS OF THE A. SYNACA ERADICATION DURING THE FIVE-YEARHANDLING WAPPROJECT SITE, BODOGLÁR(160HA) 84%, IN BÓCSA PROJECT SITE 96%. THE OTHERIMPORTANT IN OF THE EFFECTIVENESS IS, THAT BESIDE THE SIGNIFICANT REDUCE OF THE INFECTION AREA COVEROF THE ASCLEPIAS STANDS IS ALSO SIGNIFICANTLYDECREASED. IN THE BÖDDI-SZÉK 3,7 HA STANDS OF ASCLEPIAS SYNACA WERE HANDLED IN 2014 AND 2015 CONSEQUENTLYWI METHOD. DENSITY OF THE STANDS WAS REDUCED AFTERTHE FIRST YEARHANDLING AVERAG SOME SPORADIC NEW OCCURRENCES HAVE BEEN OBSERVED IN SPRING 2015, HENCE THEIRHAI STARTED IN MAY2015.

THE OBSERVATIONS ABOUT COLLATERAL EFFECT OF THE CHEMICAL HANDLING WERE MADE TREATED AREA BYVISUAL ASSESSMENT. THE MONITORING RESULT OF VEGETATION CHANGE ASCLEPIAS ERADICATION SHOW THAT IN CASE OF SPORADIC DAMAGE THE REGENERATION OVEGETATION STARTS QUICKLYAND EFFICIENTLYDUE TO THE SURROUNDING PROPAGULUM S

Keywords: ASCLEPIAS SYNACA, CHEMICAL TREATMENT, ERADICATION, SAFETYOF NATURE VANONITORNG

Title: IMPROVING THE CONSERVATION STATUS FOR THE PRIORITY SPECIES AND HABIT. IRON GATES WETLANDS

Authors and presenter name, organization, position/title: CARMEN SORESCU, TANIA CHINCEA, ENVRONMENTAL PROTECTION AGENCYCARAS-SEVERIN, 73 PETRUMAIOR, RE ROMANIA,

Presentation type: POSTER

Summary

LOCATED IN THE SOUTH-WESTERN OF ROMANIA, ROSPA0026 DANUBE WATER CO BAZIAS-IRON GATES OVERLAPS A LARGE AREA OF PRIORITY HABITATS WHERE CO CORMORANT AND FERRUGINOUS DUCK POPULATION LIVES ALONGSIDE OTHER PROTEC FORM HABITATS DIRECTIVE, 3 AM**PHIBHANSo**mbina, Bombina variegata, Bufo bufo), 1 SPECIES BELONGING TO THE **REPSTHEMACU**(laris) AND 4 SPECIES FROM PISCES Gymnocephalus schraetzer, Gymnocephalus baloni, Zingel streber, Zingel zingel). ROSPA0026 DANUBE WATER COURSE BAZIAS – IRON GATES IS CLASSIFIED AS T THIRD IMPORTANT BIRD AREA FROM ROMANIA. THE AREA REPRESENTS AN IMPORTAN DURING THE SPRING – AUTUMN PASSAGE SEASONS FOR THE WILD BIRDS, AS IT IS ON T FOR THE WESTERN PART OF THE COUNTRYTISA-MURES-DANUBE. THE AREA IS ENDANC SEVERE BIODIVERSITYTHREATS, SUCH AS: WETLANDS EUTROPHICATION, AQUATIC INVAS BIRDS NESTING AND RESTING HABITATS DEGRADATION AND WETLANDS POLLUTION.

OUR AIM THROUGH LIFE NATURE PROGRAMME IS TO PROVIDE A LONG TERM FAVO CONSERVATION STATUS FOR PRIORITY BIRD SPECIES (ESPECIES) AND Aythya nyroca) BY RESTORING WINTERING, NESTLING AND FEEDING HABITATS; REM AQUATIC AND RIVERSIDE INVASIVE SPECIES THROUGH DEMONSTRATIVE ACTIONS; ENF EARLY WARNING SYSTEM FOR INVASIVE ALIEN SPECIES AND INCREASING PUBLIC AWA THE IMPORTANCE OF BIODIVERSITY IN THE IRON GATES WETLANDS.

WEED HARVESTING IS AN EFFICIENT METHOD TO ELIMINATE INVASIVE SPECIES A EXTENSIVELYUSED IN MANYCOUNTRIES. PRACTICALLYIT IS THE ONLYCERTIFIED MEASU REDUCE THE SPECIES COMPETING WITH VARIOUS PROTECTED SPECIES WITHOUT USING COMPOUNDS (HERBICIDES), DREDGING OR DRAINING THE WETLANDS.

WEED HARVESTING PROCEDURE HAS NEVER BEEN USED BEFORE IN ROMANIA A PROJECT WILL PROVE THE EFFICIENCY OF THIS METHOD IN THE SOCIAL – ECONO ECOLOGICAL CONTEXT OF WETLANDS ALONG THE DANUBE RIVER AND NOT ONLY. THE SESSIONS WILL TAKE PLACE AVOIDING NESTING PERIODS, SEEDS GERMINATION, ETO WON'T GET ENDANGER THE PROTECTED SPECIES. THE IMPLEMENTATION OF THIS A PROVIDE FAVORABLE HABITATS FOR WINTERING AND FEEDING FOR MORE THAN S CORMORANTS AND SECONDARY HABITATS FOR 12 OTHERS PROTECTED SPECIES (*nyroca*). Title: ECOLOGICAL AND SOCIAL IMPACT OF Balanik produbate (acia L.) AFFORESTATION ON DEGRADED LANDS IN SW ROMANIA.

Authors and presenter name, organization, position/title: ALEXANDRU LIVIU @IŢJV CRISTIANA DINU, DIANA VĄSNAEIONAL INSTITUTE FOR RESEARCHAND DEVELOPMENT IN FOR "MARIN EXREA" - INCDS, EROILOR BLVD. 128, 077190 VOLUNTARI, ILFOV, ROMANIA

Presentation type: POSTER

Summary

FOREST AREA IN THE S-W PART OF ROMANIA AND ESPECIALLYIN OLTENIA REGON HAS DIMINICONSIDERABLYIN THE LAST TWO CENTURIES, REACHINGIN 2010 A LEVEL OF AFFORESTATION 130000 HA). SOME OF THE BIGGEST DEFORESTATIONS IN THE AREA (CA. 9000 HA) WERE MADE BY COMMUNIST REGIME IN THE 60' TO EXPAND ACRICULTURAL LAND. DEFORESTATION TRICGEREI CAUSINGTHE FORMATION AND ADVANCINGOF SAND DUNES, AND THS PHENOMENON HAS A DEFFECT ON THE ECONOMIC, ENVIRONMENTAL AND SOCIAL CONDITIONS OF THE REGION, AND CLOBAL CLIMATE CHANCE EFFECTS, CREATINGPREREQUISITES TO DESERTIFICATION.

THE SUSTAINABLE SOLUTION TO STEAD AND STREAM AS IDENTIFIED SINCE 1885, NAMELY AFFORESTATION OF THE SAND DUNES WITH BEINE OF ADAMS AND ONE OF THE SAND DUNES WITH BEINE OF ABANDONED ACRICULTURAL LANDS TURNED TO BLACKLOCUST BECAUSE OF ITS FAST CROW CYCLE AND SIMPLE MANAGEMENT. COMMON EFFORTS TO MITIGATE COMMON THREATS MADE RECLAMATION OF MORE THAN 5000 HA OF DECRADED LANDS IN DESERTIFICATION PRONE ARE AMONGTHE ECOSYSTEM SERVICES PROVIDED BYLOCAL PRIVATE OWNED BLACKLOCUS ARE CONSTRUCTION WOOD, HONEY (BEEKEEPING), 'FLYINGSAND' STABILIZATION, ACRICULTUF PROTECTION, ACRO FORESTRY INTERCROPPING AND ENHANCED BIODIVERSITY (E.G HABITAT FOR

Keywords: Black locust, impact, degraded lands, private forest owners

Title: COMPARISON OF THE OCCURRENCE AND SPREAD OF INVASIVE ALIEN PLANT SPECIES EXAMPLE OF THE TOWNS OF LEVICE AND ZVOLEN(SLOVAKIA)

Authors and presenter name, organization, position/title: JURAJ MODRANSKÝ, MICHAL PÁSTOR, DUŠAN DANŠ, TECHNCAL UNVERSITY IN ZVOLEN, FACULTY OF ECOLOGY AND ENMRONN SCIENCES, DEPARTMENT OF LANDSCAPE PLANNNGAND DESIGN,

Presentation type: POSTER

Summary

RESEARCHINTO INVASIVE ALIENPLANT SPECIES INSLOVAKIA RUNS FROM THE 90IES OF THE 20 THE FIRST TOWNS IN WHICH WAS COMPREHENSIVELY ASSESSED THE SPREAD OF INVASIVE AL SPECIES ARE LEVICE IN SOUTHERN SLOVAKIA AND ZVOLEN IN CENTRAL SLOVAKIA. LEVICE IS THE WARM AND SLICHTLY DRY CLIMATE REGION WITH AVERACE ANNUAL TEMPERATURE CIR AVERACE ANNUAL PRECIPITATION 628 MM. ZVOLENIS SITUATED IN THE MILD WARM CLIMATE AVERACE ANNUAL TEMPERATURE ABOUT 7.6 °C AND AVERACE ANNUAL PRECIPITATION 702 YEAR 2004, THERE WERE EVALUATED AS THE MOST PROBLEMATIC SPECIES IN BOTH TOWNS T SPECIE& ilanthus altissima, Rhus typhina, Robinia pseudoacacia, Amorpha fruticosa, Lycium barbarum, ANDNegundo aceroides. REPEATED COMPREHENSIVE INVESTIGATION WAS CONDUCTI AGAININTHE YEAR 2015 INLEVICE. AS THE MOST RISKY SPECIES WEIRFIAS SHESSED, Rhus typhina, Lycium barbarum, AND Negundo aceroidesCOMPARED TO APPROXIMATELY5, 000 INDIVIDUALS OF INVASIVE ALIEN SPECIES IN THE YEAR 2004, THERE WERE MAPPED ALMOST THE YEAR 2015. THE INCREASE OF THESE SPECIES IS CAUSED BY THEIR ADAPTABILITY TO NEW AND INADEQUATE EDUCATION OF THE PUBLIC. FROM OUR OBSERVATIONS, WE FOUND O OCCURRENCE OF INVASIVE ALIEN PLANT SPECIES IN THE URBAN AREAS IS NOT SO PROBLEM. PLACES, SINCE THEY HAVE USUALLY AN INTENSIVE MAINTENANCE. RISK IS REPRESENTED N CORRIDORS LEADINGTHROUGHTHE CONTACT ZONE OF THE SETTLEMENT-LAND INFO THE OPEN CORRIDORS CANBE USED BY THE INVASIVE ALIENPLANT SPECIES FOR THEIR FURTHER UNCON INTO THE OPEN COUNTRY, WHERE THEY CAUSE RELEVANT ECOLOGICAL DAMAGE. PRIORITIE WITHISSUES OF INVASIVE ALIENSPECIES INURBANAREAS, INCLUDE THE MAPPING CONTROL A OF THESE SPECIES IN PROBLEMATIC ENORMATICES Y IMPORTANT IS ALSO THE IDENTIFICATION MENTIONED CORRIDORS AND ERADICATION OF INVASIVE ALIEN SPECIES WITHIN THE SUPPOS FLICHT OF INDIMIDUAL SPECIES DIASPORA.

Keywords: INVASIVE ALIENPLANT SPECIES, SPREAD, ERADICATION, URBANAREAS, CORRIDORS

Title: MAPPING AND EXPLAINING THE DISTRIBUTION OF INVASIVE PLANT SPECIES IN A NAT IN ROMANIA

Authors and presenter name, organization, position/title: ANNAMÁRIA FENESI, BABE BOLYAI UNIVERSITY, HUNGARIAN DEPARTMENT OF BIOLOGYAND ECOLOGY. ZOLTÁN LÁSZL BOLYAI UNIVERSITY, HUNGARIAN DEPARTMENT OF BIOLOGYAND ECOLOGY. CSOBOLYADE GÁBOS BA UNIVERSITY, HUNGARIAN DEPARTMENT OF BIOLOGYAND ECOLOGY. CSOBOLYAI. VÁGÁSI, BA UNIVERSITY, HUNGARIAN DEPARTMENT OF BIOLOGYAND ECOLOGY. UNIVERSITYOF DEBRI BEHAVIOURAL ECOLOGYRESEARCH GROUP, DEPARTMENT OF EVOLUTIONARYZOOLOGY

Presentation Type: POSTER

Summary

THE SPREAD OF INVASIVE PLANT SPECIES IN CONSERVATION AREAS ARE OF SPECIAL CONC MANAGEMENT OPTIONS TO PREVENT, DETECT, AND CONTROL INVASIVE SPECIES ASSUME INVENTORY AND MONITORING OF THE ALIEN SPECIES. WE PERFORMED A BASIC INVETORY SECTION OF THE TÂRNAVA MARE VALLEYIN SOUTHERN TRANSYLVANIA, ROMANIA. THIS L HIGHLYHETEROGENEOUS DUE TO ITS TOPOGRAPHY AND TRADITIONAL LAND-USE TECHNIC HAS BEEN DESIGNATED AS NATURA 2000 SITE OF COMMUN**COMMENT OF ADDITIONAL** NATURA 2000 SITE, ROSCI0227) BECAUSE 18 HABITATS LISTED IN THE EU HABITATS DIRECT I CAN BE FOUND IN THIS REGION. MASSIVE ABANDONMENT OF AGRICULTURAL LANDS OCC TWO DECADES, WHICH MADE A GREAT VARIETY OF HABITATS ESPECIALLY SUSCEPTIBLE O

DURING 2011-2013, WE MAPPED THE PRESENCES AND ABUNDANCE OF 20 ALIEN PLAN ACROSS THE 85374 HA STUDYAREA. WE FOLLOWED ALL THE LINEAR DISTRIBUTION PATHW SPRINGS, ROADS, RAILWAYS) AND WE TOOKSAMPLE POINTS IN EVERY3 KM. WE RECORDED TYPES AND THE OCCURRING INVASIVE SPECIES AND THEIR ABUNDANCE ON A FIVE-LEVEL THE POINTS. FURTHERMORE, WE TOOKSAMPLE POINTS WHENEVER WE OBSERVED AN INVA BETWEEN TWO CONSECUTIVE SAMPLE POINTS. LANDSCAPE DATA (ALTITUDE, TOPOGRAPH HETEROGENEITY), CLIMATE AND ANTHROPIC DISTURBANCE DATA (NEAREST VILLAGE, CIT EXTRACTED FROM VARIOUS DATABASES AND CORRELATED WITH THE DISTRIBUTION OF T INVASIVE SPECIES.

Solidago canadensis, Helianthus tuberosus AND Robinia pseudacacia WERE THE MOST SUCCESSFUL INVASIVE COLONIZERS, OFTEN BECOMING DOMINANT EVEN AT THE LANDSC SPECIES WERE ABLE TO ENTER NATURAL COMMUNITIES AS WELLT. AFHER, SPECIES (E.G. Asclepias syriaca, Reynoutria japonica, Erigeron annuus, Conyza canadensis, Echinocystis lobata, Rudbeckia laciniata AND Impatiens glandulifera) WERE LOCALLY ABUNDANT, BUT WITH MODERATE REGIONAL DISTRIBUTION. ROADS AND ABANDONED AGRICULTURAL AREAS W INVASION, WHEREAS FORESTS WERE NOT HOSTING INVASIVE SPECIES. OUR FINDINGS SHO NUMBER OF INVASIVE SPECIES AND THEIR ABUNDANCE INCREASED WITH LANDSCAPE HE

Keywords: CONSERVATION AREA, NATURA 2000, INVASIBILITY, TROADS & VANIA, SIGHI

Title: INVASIVE AIIEN SPECIES IN KAMPINOSKI NATIONALPARK. POIAND

Authors and presenter name, organization, position/title: ANNA OPERA, ANNA PROVINCE AND CONSERVATION MONITORING

Presentation type: POSTER

Summary

KAMPINOSKI NATIONALPARK IS THE SECOND BIGGEST NATIONALPARK IN POIAND, IOCATE THE CAPITALCITY– WARSAW IN THE VAILEY OF VISTUA RIVER. IT WAS ESTABLISHED TO PRO THE LARGEST COMPIEX OF INIAND DUNES IN CENTRAL EUROPE. CHARACTERISTIC FO GEOMORPHOIOGICAL FORMATION OF THE TWO LARGE DUNE AREAS AND VAST MARSHES B OVER 73 PERCENT OF AREA IS COVERED BYFORESTS.

VARIOUS NATURALAND ANTHROPOŒNIC FACTORS DETERMINE THAT THE AREA OF KAMI PARK IS A PROTECTED SITE IN WHICH THE INVASION OF AIIEN SPECIES IS ESPECIALLY INT VASCUAR FIORA OF KAMPINOSKI FOREST COUNTS APPROX 1400 SPECIES AMONG WHICH 36 OF AIIEN ORIGIN, WHIE A FURTHER 40 ARE LISTED AS INVASIVE IN POLAND. DURING THE LAST NUMBER OF INVASIVE ALIEN SPECIES IN KAMPINOSKI FOREST DOUBLED WITH THE INCREA COVERED BYTHESE SPECIES BEINGEVEN LARGER.

AMONGTHE 40 INVASIVE AILEN SPECIES NOTED IN KAMPINOSKI FOREST 25 OCCUR FREQUEN IOCATIONS) WHIE EIGHT HAVE A MASSIVE OCCURRENCE. WASSIVELY ACQUECUS rubra, Acer negundo, Robinia pseudoacacia, Solidago gigantea, Impatiens parviflora, Bidens frondosa AND THEYARE AISO HCHYINVASIVE IN THE COUNTRY. OTHER SPECIES OCCUR HERE F OR ONLY ON INDIVIDUALIOCATIONS BUT CAN POSE A THREAT TO NATIVE SPECIES AND HABT TO THE SECONDARY IECISIATION OF THE MINISTER OF THE ENVIRONMENT FROM THE Echinocystis lobata, Impatiens glandulifera, Reynoutria japonica, Reynoutria sachalinensis.

THE ACTIVITIES PERFORMED BY KAMPINOSKI NATIONAL PARK STAFF SINCE THE EARLY FOCUSED ON IIMITING THE DISTRIBUTION OF 4 SPECALES OF give Best and servina, Robinia pseudoacacia, Quercus rubra AND ON A MUCH SMAILER SCALE THE FOLLOWING PERENNIA Solidago ssp. AND Reynoutria japonica.

THE RESOURCES ON EIIMINATING AIIEN SPECIES WERE PROVIDED FROM NATIONALFUNDS I NATURE PROTECTION PURPOSES. AN EVAILATION OF THE EFFECTIVENESS OF THE PERFO SHOWED A HIGHEFFICIENCY OF PIANTING NATIVE SPECIES, PULING AND CRUBBING OF AIIEN F IN CASE OF *Quercus rub*ASO CUTTING AT A HEIGHT OF 0,5-1M.

Keywords: alien species, Kampinoski National Park, protected areas, methods of eradication,

Title: AILANTHUS (*Ailanthus altissima*) MANAGEMENT PLAN IN COLLSEROLA NATURAL PARK: PREVENTION, DETECTION AND CONTROL

Authors and presenter name, organization, position/title: JOAN VILAMÚVIÑAS, COLLSEROLA NATURAL PARK CONSORTIUM / ENVIRONMENTAL TECHNICIAN

Presentation type: POSTER

Summary

PREVENTION: DISCLOSURE/COMMUNICATION

ON 21 JUNE 2011, THE COLLSEROLA NATURAL PARK CONSORTIUM HELD A WORKSHOP TO HAND INFORMATION ON PROBLEMS WITH EXOTIC PLANTS AND, THUS LAYTHE FOUNDAT REDUCING THEIR ENVIRONMENTAL IMPACT. FROM THIS, A WORKING COMMITTEE WAS S PREPARE A LIST OF INVASIVE SPECIES IN THE PARK, AS WELL AS RESEARCH ON SIMILAR NON-INVASIVE PLANTS FOR GARDENING. THEN, THIS COMMITTEE MADE A PROPOSAL ON TO INVASIVE SPECIES. THE CONSORTIUM'S TECHNICAL DEPARTMENT HAS REPORTED TH CAUSED BYINVASIVE SPECIES THROUGH ARTICLES, POSTCARDS AND ITEMS ON ITS WEB NEWSLETTERS. THE ISSUE HAS ALSO BEEN EXPLAINED IN MEDIA INTERVIEWS.

DETECTION: PARTICIPATION.

IN 2007 FILE CARDS WERE MADE FOR EVERYPOPULATION STAND OF AILANTHUS SO AS TO MORE COMPREHENSIVE MAP OF ITS DISTRIBUTION IN THE PARK. THIS WORK IS BEING DO GROUP OF VOLUNTEERS SO THAT 138 AILANTHUS CLUSTERS HAVE ALREADYBEEN INVE 2014 A NEWLINE OF COLLABORATION WTH NEIGHBORHOOD ASSOCIATIONS ALLOWED US AILANTHUS IN PRIVATE PLOTS WITHIN COLLSEROLA. THE COLLSEROLA NATURAL PARK IN CHARGE OF APPLYING HERBICIDE WHILE THE OWNERS OF THE PLOTS ARE EXPECTED TO REMOVE THE DEAD TREES.

CONTROL: ACTION

COLLSEROLA NATURAL PARK TECHNICIANS HAVE CARRIED OUT DIFFERENT CONTROL E EXOTIC INVASIVE SPECIES, INCLUDING ALL TREATMENTS AVAILABLE, EITHER MANUAL, CHEMICAL. THE FIRST TEST FOR AILANTHUS ELIMINATION WAS CONDUCTED IN THE PAR TREATMENT WITH HERBICIDE INJECTION BEGAN IN 2004 AND IT CONSISTED OF TRYING O METHODS OF APPLYING HERBICIDE ON THE TREE'S TRUNK AND INJECTING DIFFERENT PI ON ONE HERBICIDE OR MORE DILUTED IN WATER OR DIESEL. FINALLY, A MIXTURE OF HEL FOUND WHICH GIVES GOOD RESULTS SO THAT IT HAS BEEN USED THROUGHOUT THE SUI BETWEEN 2004 AND 2015, 50,962 TREES WERE REMOVED BYTHIS METHOD. PRIORITYHAS B GIVEN TO CLUSTERS IN THE DEEPEST AREAS OF THE PARK IN ORDER TO PREVENT THEM BECOMING THE OUTBREAKS OF NEWSETTLEMENTS AND ATTAINING THE EXTENT OF THE CURRENTLYEXISTING ON THE PARK'S PERIPHERY. IN RECENT YEARS EFFORTS HAVE BEEN FEMALE TREES IN ORDER TO AVOID SEED DISPERSAL AS MUCH AS POSSIBLE, THUS LIMIT INVASIVE ABILITY.

Keywords: *Ailanthus altissima*, MANAGEMENT, PREVENTION, ALTERNATIVE SPECIES, MEDIA, DETECTION, VOLUNTEERS, NEIGHBORHOOD ASSOCIATIONS, CONTROL, HERBICIDE INJEC

Title: Chances of the Combat – Forest Stand Transformation on the Szabadság Island, Mohács, Hungary

Authors and presenter name, organization, position/title: András Márkus, Duna-Dráva National Park Directorate / botanical referee, ,

Presentation type: poster

Summary

In the scope of the LIFE07 NAT/H/000320 "Conservation of alluvial habitats of community interest on the Szabadság Island and side channel in Béda-Karapancsa pSCI" the WWF and the DDNPD carried out the transformation of earlier private owned non-natural noble poplar forest stands and degradated stands of alluvial forests invaded by box elder (Acer negundo) and green ash (Fraxinus pennsylvanica).

In the noble poplar stands clear cutting was performed and after that the plots were planted with the species of the natural alluvial forests (white poplar, black poplar, Hungarian ash). At the basically native forest stands the invasive species were eliminated and some native species were planted additionally.

In the 3 years of the LIFE programme intensive monitoring were carried out at 9 plots with 2 and 3 sampling in a year. In the AfterLIFE period in the next 2 years yearly one sampling was did.

In these years the newly planted forest stands show relatively large growth and the stands started to close but the invasive species were also abundant as well as at the thinned seminatural alluvial forests.

In the management of the area the young shoots of box elder and green ash were eliminated every year minimum 2 times. Unfortunately not only offsets emerged but from the near stands of the invasive species the seeds spreads easily moreover in the soil of the island the propagulum also available.

The sampling show that the abundancy of the invasive arboraceous species only depends on a simple factor: how long is the period without cutting of the young shoots. The renewal of these species is so strong in the area – from seeds and offsetting – it is hardly imaginable the forest stand transformations can be really finished. As it seems through five years without continuous elimination of the invasive species the forest stands of native species probably turns into invasive dominated stands again.

Keywords: Acer negundo, Fraxinus pennsylvanica, invasion, floodland, island, forest stand transformation, renewal

Title: INVASIVE SPECIES FROM NATURA 2000 SITE, ROAR ANNIURE

Authors and presenter name, organization, position/title: LIVIU HOLONEC, ORSOLYA BORSAI, FLORIN REBREANU, ADRIAN FÜSTÖS, LUDOVIC OTTO VARGA, ILEANA GLODEAN, UNIVERSITYOF AGRICULTURAL SCIENCES AND VETERINARYMEDICINE, CLUJ-NAPOCA / CORRESPONDING AUTHOR. MONICA MARIAN, OANA MŞŒÆ, ROCIA MIĂILESCU, ZORICA ŞŒAN, TECHNICAL UNIVERSITYOF CLUJ-NAPOCA, NORTH UNIVERSITYCENTER OF BAIA MARE, BIOLOGYDEPARTMENT.

Presentation type: POSTER

Summary

Introduction: ONE OF THE SUBSTANTIAL THREATS TO THE ENTIRETYOF THE NATURA AND SITE ROSCIOU ITS BIODIVERSITYSTRUCTURE IS THE OCCURENCE OF THE NON-INDIGENOUS SPECIES, WITH A HIGH IN WHICH HAD BEEN INTENTIONALLYPLANTED OR BEING SPREAD THROUGH DIFFERENT PLANT MIGRATI ORIGINAL CHARACTER AND THE PATRIMONIAL VALUE OF THE NATURA 2000 SITE IS GIVEN BYTHE FLO THE MEADOWS, FORESTS, WETLANDS AND ROCKGARDENS. THESE AREAS ARE BUILT UP OF SETTLED P INTEGRATED IN THE CENOTYC AND STAGNANT ENVIRONMENT. THE GROWTH OF THE NON-INDIGENOU DUE TO HUMAN ACTIVITIES OR SPREAD BYNATURE, CAN LEAD TO THE DECREASE OF THE NATIVE POI BYITS SUBSTITUTION AND PAUPERIZATION OF THE HABITATS.

Aims and objectives: THE MAIN OBJECTIVES OF THE STUDY WERE TO IDENTIFY INVASIVE SPECIES FROM 2000 SITE IGNIFO ESTIMATE THE POTENTIAL IMPACT OF THESE SPECIES ON THE BIODIVERSITY AND T MANAGEMENT MEASURES ON BIODIVERSITY IN ORDER TO PROTECT THE HABITATS.

Materials and methods: THE RESEARCH WAS CARRIED OUT IN THE RESIGNOUS ARAMURE SITUATED IN THE NORTH-WESTERN PART OF ROMANIA. THE STUDIED AREA HAD 19602 HECTARES IN PLANT COMMUNITY ANALYSIS WERE REALIZED APPLYING THE BRAUN-BLANQUET J., PAVILLARD J. M ECOLOGICAL INDICATORS. INVESTIGATIONS WERE STARTED ACCORDING TO THE BIOLOGICAL CYCLE OBTAIN GOOD RESULTS. THIS PHYTOSOCIOLOGICAL RESEARCH WAS DONE IN THE YEAR OF 2014-2015 Results: BASED ON THE RESEARCH MADE IN THE RESEARCH WAS DONE IN THE YEAR OF 2014-2015 Results: BASED ON THE RESEARCH MADE IN THE RESECTION ARAMURSTULATED IN THE NORTH-WESTERN PART OF ROMANIA THE FOLLOWING INVASIVE SPECIES WERE IDENTIFIED HAVING A GR ORIGINAL HABITATS FROM CHARGE AREA DO ACCORDING AS SOME OF THESE SPECIES WERE FOUND IN VICINITY OF THE PROTECTED AREA, OTHERS WERE ALREADY SETTLED IN THE ORIGINAL HABITAT F. BUSHES FROM THE WATERSIDES. ALL THESE SPECIES SPREAD IN THIS AREA ENDANGER THE NATU

CONSERVATION PURPOSES.

Conclusions: IN ORDER TO REDUCE THE RISKOF THE INVASION OF THE NATURAL HABITATS, MORE AT TO BE PAYED FOR INFRASTRUCTURE, ANTHROPICAL AREAS AND CANALS. BEATEN TRACKS AND GENERATE SIGNIFICANT CHANGES IN THE HABITATS FAVORIZING WEED GROWTH. THE PROPOS MONITORING AS FOLLOW. SHRUBBERIES AND GROUNDS. BESIDES INCLUDES NOT ONLY THE RESTRUCTURAL ROADS FROM THE SITE BUT ALSO THE IDENTIFICATION AND ELII INVASIVE SPECIES WITH A HIGH DESTROYING POTENTIAL ON THE NATURAL HABITATS.

Keywords: Helianthus tuberosus, Fallopia japonica, PHYTOSOCIOLOGICAL/SADRWEPX;eudacacia

Title: PRUNUS SEROFINA, ALIANTHUS ALTISSIMA. PHYTOLACCA AMERICANA: THEMAIN INVAS SPECIES IN THEWILDLIFERESERVE "BOSCOWWF DI VANZAGO' ITALY

Authors and presenter name, organization, position/title: ANDREA MARIA LONGO'BOSCO WWF DI VANZAGO' ITALY/ DIRECTOR OF THE WILDLIFERESERVE

Presentation type: POSTER

Summary

THE WILDLIFE RESERVE "BOSCOWWF VANZAGO' IS A RELIC FOREST OF WHAT ONCE WAS THELL FOREST, HEAVILY POPULATED TODAY. THE "BOSCOWWF VANZAGO' IS ABOUT 20 KM FROM MILA

THE WOODED AREA IS ALTERNATE WITH FARMLAND, LAKES AND WETLANDS.

"BOSCOWWF VANZAGO' IS RECOGNIZED AS A NATURE RESERVE FROM REGIONE LOMBARDIA AN BEEN IDENTIFIED AS SCI AND ZPS FROM THE HABITAT DIRECTIVE

IN SEVERAL FORESTS OF THE POPLAIN THERE IS A MASSIVE SPREAD OF PRUNUS SEROTINA. INTR 1992, PRESUMABLYIN SOME PRIVATE LANDS IN CRENNA DI GALLARATE (VARESE), THE SPECIES GREAT LY EXPANDED ITS DISTRIBUTION AREA.

ITS ORIGIN IS FROM NORTH AMERICAN, IT IS A TREETHAT REACHES 18-25 METERS AND ITS FRU AFTER THE MIDDLE OF AUGUST.

THE SPECIES HAS EXPANDED RAPIDLYESPECIALLYIN COPSES FOREST FORMING POPULATIONS OF STRUCTURE AND GREATLYDEPLETING THE SPECIFIC COMPOSITION. IT HAS INHIBITORYCAPACI SUBSTANCES ALLOPATHIC PRODUCTION.

IN ADDITION TOTHE PRUNUS SEROTINA, OTHER NON-NATIVE SPECIES ARE ALSO PRESENT: AILAN ALTISSIMA EPHYTOLACCA AMERICANA.

IT IS EXTREMELYPROBLEMATIC TOCONTROL THE WEED CONSIDERING ALSO THE HIGH COST FOR AND CONTINUOUS CUTTING IN ALL THE AREAS CONCERNED AND THE NON-USE OF CHEMICALS.

Title: ALIEN PLANT SPECIES IN TRGLAVNATIONAL PARK: SPECEIS COMPOSITION, HABITAT CHAND MANAGEMENT.

Authors and presenter name, organization, position/title: TINA PETRAS SACKL, TANJA MENEGALIJA, TRGLAVNATIONAL PARK

Presentation type: POSTER

Summary

AN OVERMEW ON THE INVENTORY OF ALIEN PLANT SPECIES IN TRIGLAVNATIONAL PARK TAKEN 2014, IS GIVEN. ADDITIONALLY, THE LIFE STRATEGIES THAT ARE RESPONSIBLE FOR A SUCCESSF ECOLOGICAL AND HABITAT CHARACTERISTICS OF ALIEN SPECIES, AND EXAMPLES FOR THE M INVASIVE ALIEN SPECIES IN NATIONAL PARK ARE DESCRIBED

WITHErigeron anuus, Fallopia japonica, Solidago gigantea, ANDRobinia pseudacacia AS THE MOST PREVAILING SPECIES, THE ALIEN FLORA OF TNP CURRENTLY CONSISTS OF 19 SPECIES. L EUROPEAN COUNTRES WHERE THE PARAMULAES, Poaceae ANDRosaceae CONTAIN MOST ALIEN SPECIES (WEBER, 1997), MOST INVASIVE PLANTS IN TNP BELONGEROERAMMIHILE OTHER FAMILIES CONTAIN ONLY ONE ORTWO ALIEN SPECIES. CURRENTLY NO ALIEN SPECIES IS KNO PARK WHICH IS TYPICAL ONLY FORTHE MOUNTAIN CLIMATE RANGE WHICH IS IN AGREEMEN THAT MOST ALIEN PLANTS ARE CLIMATICALLY BROAD LOWLAND SPECIES RATHERTHAN N (MCDOUGALL ET AL., 2010). ACCORDING TO THE MOUNTAINOUS CHARACTEROF THE SAMPLIN PLANTS WERE FOUND MOST FREQUENTLY IN THE MOUNTAIN ALTITUDINAL BELT. THE HIGHE ALIEN PLANTS ARE SITUATED NEAR THE POKLJUKA PLATEAU (NEAR GORELJEK AND GORU MOUNTAIN ALTITUDINAL BELT: Fallopia japonica (1343 M) AND Solidag(1078cMP)nsis

WITH THE EXCEPTION Concerned which is currently restricted to a few locations, most woody plants show a distinctive geographical distribution this times proves. PREVAILS IN TRENTOS prevaled is MOST ABUNDANT IN BOAC AND TOLMINSKO, WHI Fallopia japonica WAS FOUND MOST FREQUENTLY IN THE GORENJSKA REGION OF THE PARK: IN FGORA, BOHINJ AND POKLJUKA. ALL LATTER SPECIES, WHICH ARE CHARACTERIZED BY THE REPRODUCTION STRATEGIES, WERE FOUND IN DISTURBED HABITATS.

MOST INVASIVE PLANT SPECIES IN TNP ARE PERENNIALS OR HERBS WHICH FLOWERMOSTLY A THE FLOWERING PERIOD FROM MID- TILL LATE SUMMER IN ONLY A FEW SPECIES WHICH WER TRIGLAV NP, THE FLOWERING PERIOD IS LIMITED TO LATE SPRING ANIRO EIARLY SUMME pseudacacia, Spiraea japonica, Acer negundo). SOME SPECIES WHICH HAVE ALREADY ESTABLISH NATURALIZED POPULATIONS IN TRAPELING Ecolatus, Bidens frondosa, Erigeron annuus, AND Impatiens parviflora, ARE CHARACTERIZED BY THE MOST EXTENDED FLOWERING PERIODS, WHILE INVASIVE SPECIES IN THE PARK FLOWERING IS RESTRICTED TO COMPARATIVELY SHORT PERIODS MONTHS. FOLLOWING TO THEIR CURRENT DISTRIBUTION AND HABITAT CHARACTERISTICS TH REASONS FOR THE INVASION AND SPREAD OF ALIEN SPECIES IN TNP ARE THE TRANSPORTATION MATERIALS, ESCAPES FROM GARDENS, AND SPONTANEOUS INVASION FROM ADJACENT AREAS. ' ALIEN PLANTS RECORDED IN TNP ORGINATES FROM NORTH AMERICA, WITH A SMALLERNUMBI IN ASIA AND IN THE MEDITER ANEAN BASIN.

BESIDES PARAMETERS OF LIFE STRATEGIES WE USED ELLENBERG VALUES TOESTIMATE THE H ALIEN SPECIES IN TNP AND FOR ANALYSING CURRENT TRENDS AND ENVIRONMENTAL VA UNDERLIE VEGETATION CHANGE. MOST ALIENS ARE SUB-OCEANIC SPECIES WHICH PREFERSIT AMOUNT OF SOIL MOISTURE. ACCORDING TRADEMENT parviflora IS THE ONLY SPECIES WITH A PREFERENCE FOR SHADY CONDITIONS. WE HAVE FOUND ONLY THREE HALR-SCHUADY SPECIE pseudacacia, Acer negundo, Impatiens glandulifera), WHILE HALF-HELIOPHYTE AND HELIOPHY SPECIES PREVAIL. MOST SPECIES ARE THERMOPHILOUS AND PREFERMODERATE WARM TO WAR AND WERE FOUND ON WEAKLY ACIDOPHILOUS TO WEAKLY BASIC SOILS. ACCORDING TO THE CI OF NEOPHYTES WITH SOILS OF HIGH NITROGEN CONTENTS, INVASIVE PLANTS ARE GOOD INDIC SOILS.

SO FAR THE FOLLOWING ACTIONS WERE TAKEN FOR MANAGING INVASIVE SPECIES IN TNP Fallopia japonica ANDAmbrosia artemisiifolia IN MANGARTSKO SEDLO AND TRENTA VALLE RESPECTIVELY. AN "ACTION PLAN FORALIEN SPECIES" WHICH INCLUDES MEASURES FORTHE M CONTROL AND REMOVAL OF INVASIVE SPECIES, WILL BE COMPILED DURING THE NEXT 3-YEAR THE MANAGEMENT PLAN OF TRGLAV NATIONAL PARK. IN GENERAL, PROHIBITING THE CUL NATIVE SPECIES IN THE PARK, PHYSICAL REMOVAL OF ALIEN PLANTS FROM CURRENTLY KNOW INITIAL SUCCESSIONAL STAGES, AND A CONTINUOUS MONITORING OF ALIEN PLANTS AND OF I SITES AS WELL AS SITES FROM WHICH THE SPECIES HAS BEEN REMOVED ARE THE MOST IMPO PREVENT THE FURTHER EXPANSION OF NON-INDIGENOUS SPECIES. FURTHERMORE, KNOWLED OCCURRENCE OF ALIEN PLANTS IN LATERSUCCESSIONAL STAGES AND THE DEVELOPMENT OF COMMUNITIES IN WHICH ALIENS ARE PRESENT WILL BE NECESSARY FOR THE CONSERVATION I ALIEN SPECIES AND ECOSYSTEMS. FURTHER MONITORING AND RESEARCH IS NEEDED IN TRO PARK TOFIND OUT WHICH PROCESSES FAVOURTHE INVASION OF NON-INDIGENOUS PLANTS, WI NON-NATIVE SPECIES (LIFE STRATEGIES), WHICH ENVIRONMENTAL CONDITIONS AND WHICH (SPECIES COMPOSITION!) ARE RESPONSIBLE, MOST VILNERABLE OR MAY ENHANCE THE INVAS NATIVE SPECIES IN MOUNTAIN AREAS.

Keywords: ALIEN PLANT SPECIES, JULIAN ALPS, TRGLAVNATIONAL PARK, ECOLOGY, MANAGE

Title: INVASIVE ALIEN SPECIES IN THE CZECH REPUBLIC

Authors' name, organization, position/title: J. PěKNICOVÁ ŠÍMÁ

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Presentation type: POSTER

Keywords: BIOLOGICAL INVASIONS, BIODIVERSITY, LEGAL ACTS, BLACK LIST

THE CZECH REPUBLIC BELONGS WITHIN EUROPE AMONG TERRITORIES WITH RELATIVEL PLANT AND ANIMAL SPECIES AND NATURAL HABITATS, WHICH FORM A FUNDAMENT ECOSYSTEMS. ALIEN SPECIES (AND MAINLYINVASIVE ALIEN SPECIES) POSE SIGNIFICANT THE BALANCE; BIOLOGICAL INVASIONS HAVE BEEN IDENTIFIED AS THE SECOND MOST IMP GLOBAL BIODIVERSITY LOSS. IN THE CZECH REPUBLIC WAS RECORDED 1454 ALIEN TAXA FLORA, CONSISTING OF 61 INVASIVE PLANTS. THE STRONG TRADITION OF RESEARCH ON B OF INTRODUCED SPECIES RESULTS IN A GOOD KNOWLEDGE OF ALIEN SPECIES AND INVAS WAS PUBLISHED "BLACK, GREY AND WATCH LISTS OF ALIEN SPECIES IN THE CZECH REPUBLIC STRATEGY").

SCIENTIFIC INSTITUTION AND GOVERNMENCIPIA HESDIES @ARITABORATIVE NATIONAL PRO ORIENTED ON INVASIVE SPECIES. RESEARCH IN THIS FIELD IS ONE OF THE GOALS OF NATI ORIENTED RESEARCH, EXPERIMENTAL DEVELOPMENT AND INNOVATIONS (http://www.government.com/ of the impact of the plant and animal invasions and development of the instruments for their

limitation") WITH SUPPORT BY THE TECHNOLOGY AGENCY OF THE CZECH REPUBLIC (E.G. VZ000865 - *Design of invasive species mapping and monitoring*). CZECH RESEARCH INSTITUTIONS COOPERATES ON MANY INTERNATIONAL PROJECTS FUNDING FROM EU (E.G. DAISIE D INTEGRATED PROJECT ALARM).

THE CZECH REPUBLIC DOES NOT HAVE ANY SPECIAL LEGISLATION ON INVASIVE ALIEN S THERE IS ONLY REGULATION OF THE INTENTIONAL INTRODUCTION OF ALIEN SPEC REQUIREMENTS OF HABITATS AND BIRDS DIRECTIVE, BUT THE MINISTRY OF THE ENVIRON ADOPTION OF THE REGULATION (EU) NO 1143/2014 OF THE EUROPEAN PARLIAMENT AND O OF 22 OCTOBER 2014 ON THE PREVENTION AND MANAGEMENT OF THE INTRODUCTION AN PREPARE AN AMENDMENT OF THE ACT NO. 114/1992 COLL., ON THE NATURE AND LANDSCAI THE CZECH REPUBLIC AIMS TO PRESERVE THE POPULATIONS OF WILD FAUNA AND FLOR ENTIRE COUNTRY AND MAKE AN EFFORT TO REDUCE THE NEGATIVE IMPACT OF IAS ON B PRINCIPLES ARE JOINTLY INCLUDED IN THE STATE NATURE CONSERVATION AND LAND PROGRAMME (1998-2021) AND UPDATES OF THE NATIONAL BIODIVERSITY STRATEGY OF REPUBLIC (2015-2025). THE STATE ENVIRONMENTAL POLICY OF THE CZECH REPUBLIC FRAMEWORK FOR AN EFFECTIVE PROTECTION OF ENVIRONMENT IN THE CZECH REPUBLIC IT IS THEREFORE IMPORTANT TO LIMIT THE SPREAD IN ECOSYSTEMS THREATEN BY IAS. F FOR ERADICATION IS PROVIDED BYNATIONAL (FUNDING SCHEMES OF MINISTRY OF THE E STRUCTURAL FUNDS - AS ONE OF THE SUPPORTED ACTIONS WITHIN THE OPERATION ENVIRONMENT 2014-20. RECENTLY, IN THE MORAVIAN-SILESIAN REGION WAS IMPLEMENT NATURE PROGRAM "PRESERVATION OF ALLUVIAL FOREST HABITATS IN THE MORÁVKA KARLOVY VARY REGION WAS IN PREVIOUS PERIOD FINANCED FROM OPERATIONAL ENVIRONMENT (STRUCTURE FUNDS) ONE OF THE LARGEST PROJECT IN THE CZ "HERACLEUM" FOCUSED ON ERADICATION. LOT OF OTHER ACTIVITIES ON SMALLER SCAL BY NGO'S AND REGIONAL AUTHORITIES AS WELL AS ADMINISTRATIONS OF THE PROTI REGULATION OF IMPATIENS G. IN NP PODYJÍ OR LONG TERM ERADICATION PROPECT ON ČESKÉŠVÝCARSKO).

Title: Recent activities on invasive alien species in Bulgaria with special emphasis on plants

Authors' name, organization, position/title: Vladimir Vladimirov^{1*}, Teodora Trichkova¹, Rumen Tomov^{1,2}

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Presentation type: Poster

Key words: alien plants, Bulgaria, ESENIAS, networks for alien species

Targeted studies on alien species in Bulgaria started about 10 years ago. Activities have focused on inventory of alien species in Bulgaria, study of their distribution and time of first introduction and/or recording in the country. Currently, work on alien species includes developing of methodologies for monitoring of alien taxa, risk assessment protocols, gathering of data about the distribution and impact of aliens on native biodiversity, analysis of the major pathways for introduction and spread, and creation of tools for early detection and warning. A special network – East and South European Network for Invasive Alien Species (ESENIAS) has been established and web-portal (www.esenias.org) developed to collect and share information about alien taxa in Bulgaria and South-East Europe. Two projects have been funded recently: 1) *Improving the Bulgarian Biodiversity Information System* (IBBIS) with a special work-package on aliens – 'Module for collecting, mapping and analysis of the impact of invasive species on the native Bulgarian species', and 2) East and South European Network for Invasive Alien Species – A tool to support the management of alien species in Bulgaria (ESENIAS-TOOLS). The poster presents the goals, current activities and achieved results within these projects with special emphasis on vascular plants.

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Field trip, 21 April 2016, Szigetmonostor, Hungary

Szentendre Island

Szentendre island is a new-born geological formation which had started to be built up only 9-10 thousand years ago (Holocence) from the alluvium of the Danube. At the beginning there had been four separate islands which later merged together. It wasn't only the river but also the wind shaped the landscape to the its peresent hilly appearance. It is 31 km long and approximatly 2,3 km wide. There are four inhabited villages indicating the four ancient island-parts. Arable fields, orchards and vineyards can be found throughout the whole area. The drilled wells which give the main supply for the capital, provide 600 000 cubic meters of clear water every day.



Flora:

The natural vegetation of Szentendre-island consist of mainly xerofilus plant

communities preferring dune habitat. Along the riverbank the typical alluvial forest consist of willow and poplar communities (Salicetum albae-fragilis) with fragmented patches of marshes and meadows.

Conservation

On Szentendre-island two separate Natura 2000 area were designated with different characteristics. Danube and its floodplain (HUDI20034) and Island sands (HUDI20047). In addition there are also several protected areas which belong to the Danube Ipoly National Park Directorate's.

Szigetmonostor project site

The site is situated in the south part of the island. The soil which is mainly fine sand originated from the Danube, wasn't suitable for ploughing, possibly was rather grazed for decades. From the beginning of 90s it was used as a military training field by the army. Some of the artificial ditches and hide-outs are still conspicuous.

Vegetation of the area

Herbicious vegetation is dominated with sandy grassland habitats (Bassio-laniflorae-Bromion tectorum) and sandy steppe habitats (Astragalo austriaci-Festucetum sulcatae). These two often form transitions but the southern part of the site is rather steppe-like. Protected plant species occurring in large numbers: Alkana tinctoria, Corispernum nitidum, Gypsophila fastigiata, Dianthus serotinus, Stipa borysthenica, Iris arenaria, Achillea ochroleuca, Onosma arenaria, Sternbergia colchiciflora or Colchicum arenarium. On the steppe-like south part Pulsatilla nigricans, Anacamptis morio and Astragalus exscapus are present.

Woody vegetation is mainly dominated by black locust (Robinia pseudoacacia), tree of heaven and hackberry. The original communities as Convallario-Quercetum and Populo-canescenti-Quercetum disappeared. Only few patches of Q. robur and Q. cerris remind us how it might have looked like before.

Invasives are not only endangering woodlands but also spreading on the gassland along with indegenous shrubs as Prunus spinosa and Crataegus spp.



Fig 1. Szigetmonostor project site

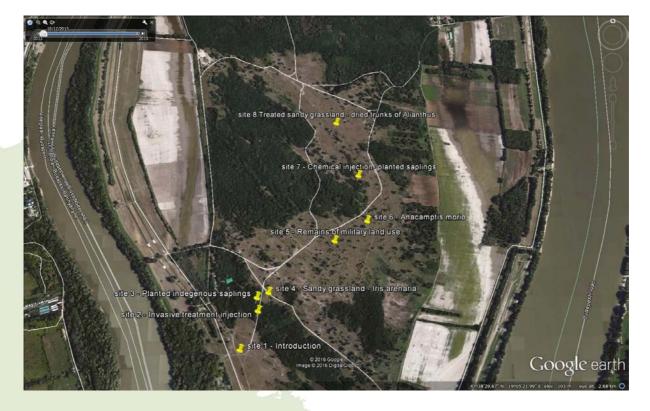


Fig 2. Protected species recorded on the area



The workshop is organised in the frame of the LIFE+ Nature project "Conservation of Priority Natural Values in Turjánvidék Natura 2000 Area Southern Unit", with the financial support of the European Commission and the Ministry of Agriculture of Hungary. Project partners are the Duna-Ipoly National Park Directorate, Defence Economic Office of the Ministry of Defence of Hungary, Budapest Forestry Company and WWF Hungary. The workshop is also part of the Pannonian biogeographic seminar process as a follow-up event, and it is supported by the European Commission, ECNC and CEEWeb for Biodiversity.