		PLACE YOUR INPUT HERE
	NUMBER OF SITES REPORTED:	3
SITE 1		**Kladje**
LIST OF MONITORING/MEASUREMENT PROGRAMS		
	name/description/aim of the project	SUSTMAN (QLK5-2002-00851) in the 5th EU Framework program; National Program - Slovenian Research Agency (SRA) and Ministry of Agriculture, Forestry and Food (MAFF). Project aims are contributing to KEY ACTION 5: Sustainable agriculture, fisheries and forestry, and integrated development of rural areas including mountain areas - 5.3.1 Multifunctional management of forests. The objectives of the project to provide new knowledge for a ecologically founded and well managed conversion of spruce monocultures through the introduction of broadleaf species are in accordance with the underlying concept of this Key Action. The project also follows the current development in forest research. Conversion of potentially unstable spruce monocultures into broadleaf species forests will enhance biodiversity and simultaneously diversify forest production. High forest diversity is a basic prerequisite facing climate change effects. Because forest production in large parts of Europe is based on spruce timber production, changing species composition will reduce the economical vulnerability when calamities
	time frame of the project (start/end)	2002-2005
	measurement methods applied	inventory, soil analysis, root distribution, tree morphology for underplanted beech
	co-operative partners (if any)	Partner 1 (Uni-Ulm) (coordination) University of Ulm, Department of Systematic Botany and Ecology Albert Einstein-Allee 11, D-89081 Ulm Scientist in charge: Prof. Dr. Marian Kazda Partner 2 (Uni-Goe) Georg-August-University of Göttingen, Faculty of Forest Sciences and Forest Ecology Institute for Silviculture Büsgenweg 1, 37077 Göttingen, Germany Scientist in charge: Prof. Dr. Burghard von Lüpke Partner 3 (SFI) Slovenian Forestry Institute Vecna pot 2, 1000 Ljubljana, Sl 1000 Slovenia Scientist in charge: Dr. Primoz Simoncic Partner 4 (MendelU) Mendel University of Agriculture and Forestry Institute of Forest Ecology Faculty of Forestry and Wood Technology Zemedelska 3, 61300 Brno, Czech Republic Scientist in charge: Assoc. Prof. Dr. Jan Cermak Partner 5 (BFW) Federal Forest Research Centre Department of Forest Ecology Seckendorff Gudent Weg 8, A-1131 Vienna, Austria Scientist in charge: Dipl.-Ing. Dr. Ernst Leitgeb
	measurement set (number of towers/plots/chronosequences)	growing season in 2003 and 2004
	target area	Introduction of broadleaf species for sustainable forest management
	name/description/aim of the project	CARBON DYNAMIC IN NATURAL BEECH FOREST. Applied research proj
	time frame of the project (start/end)	2005-2006
	measurement methods applied	inventory, litter decomposition, litterfall, tree morphology for underplanted beech
	co-operative partners (if any)	Bayerisches Amt für forstliche Saat- und Pflanzenzucht (ASP), Teisendorf
	measurement set (number of towers/plots/chronosequences)	growing season in 2005 and 2006
	target area	The definition of sites and climatic conditions (1), ecophysiological parameters (light, photosynthesis, carbon & water dynamics) (2), roots and mycorrhizae studies (3), genetics (4) and timber quality(5).
	Repeat if more projects are run at the same site!	
LIST OF INSTRUMENTATION		
	name of the measurements	soil respiration
	location of the device (if applicable)	ground
	device(s) used	LI-COR 6400
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, vegetation period, 2005-
	name of the measurements	TDR
	location of the device (if applicable)	in the soil 0 - 40 cm depth; 0 - 10 cm depth
	device(s) used	TDR100 (textronix model 1502 B/C, Prenart Equipment ApS, Copenhagen, Denmark)
	calibration method of the device (if applicable)	SFI

	frequency of the measurement/temporal resolution	monthly, vegetation period, 2004-
	name of the measurements	litter decomposition
	location of the device (if applicable)	ground
	device(s) used	litter bags
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, 2005-
	name of the measurements	meteo station
	location of the device (if applicable)	open air & stand
	device(s) used	Davis Instruments Corp. (USA)
	calibration method of the device (if applicable)	ARSO (national environmental agency)
	frequency of the measurement/temporal resolution	hourly during vegetation period, 2005-
AVAILABLE MEASUREMENT DATA		
	This section should be handled together with the LIST OF INSTRUMENTATION, if applicable. Please leave the cell blank if the listed data is not measured. If it is measured, please fill in the method of the measurement (if different from the general method described in cell B11), the temporal coverage of the data, the possible temporal gaps, the data coverage, and any other relevant information.	
	Aboveground biomass	yes
	Belowground biomass	
	Dead wood	yes
	Litter	yes
	Soil organic matter	yes
	Net ecosystem exchange of CO_2 (NEE)	
	Total ecosystem respiration (R_{eco})	
	Soil respiration	yes
	Net primary production (NPP)	
	Net ecosystem production (NEP)	
	Please list more, if necessary.	
	troughfall - deposits	during vegetation period, 2006-
	soil solution - suction-cup lysimetres	during vegetation period, 2006-
	Repeat the applicable sections for each measurement!	
AGGREGATED DATA		
	type of data	monthly
	method of calculation	
	available data (from-to, gaps, data coverage)	
	Repeat as necessary!	
SITE 2		**Snezna jama**
LIST OF MONITORING/MEASUREMENT PROGRAMS		
	name/description/aim of the project	NAT-MAN (QLK-CT99-1349) in the 5th EU Framework program; National Program - Slovenian Research Agency (SRA) and Ministry of Agriculture, Forestry and Food (MAFF). The objective of Nat-Man is to help resolve the challenge of sustainable forest management (SFM). The object of the project is European beech forests, representing a large resource for both timber production, biodiversity conservation and life quality. Improved beech management will be a major contribution to the multifunctional utilization of European forest resources. The project delivers scientifically founded policy recommendations and management guidelines for SFM, based on the scientific axiom that nature-based management is a powerful tool in achieving SFM. The scientific work behind these deliverables range from natural forests as a reference point, over a detailed scientific comparison of natural and managed forests, through biological and economical modeling. The objectives of the Nat-Man project will be achieved by a multidisciplinary team of scientists and end-users from eastern and western Europe.
	time frame of the project (start/end)	2001-2004
	measurement methods applied	inventory, microclimate conditions, deposition, soil solution, CWD, ground vegetation inventory, soil moisture

	co-operative partners (if any)	Boneer Consultancy, The Netherlands University of Oxford, Department of Plant Science, United Kingdom Eötvös University, Department of Plant Taxonomy and Ecology, Hungary University of Ljubljana, Biotechnical Faculty, Department of Forestry and Renewable Forest Resources, Slovenia Danish Forest and Landscape Research Institute, Denmark Hungarian Academy of Science, Research Institute of Soil Science and Agrochemistry of Hungary Hungary Slovenian Forestry Institute, Slovenia Alterra Green World Research, Department of Ecology and Environment, The Netherlands University of Freiburg, Institute of Silviculture, Germany Geological Survey of Denmark and Greenland, Dept. Environmental History and Climate, Denmark
	measurement set (number of towers/plots/chronosequences)	1
	target area	CWD, regeneration, of beech, gaps foramation, microclimatic conditions, water and nutrient cycling in managed and not-managed beech forests
	name/description/aim of the project	
	time frame of the project (start/end)	
	measurement methods applied	
	co-operative partners (if any)	
	measurement set (number of towers/plots/chronosequences)	
	target area	
	Repeat if more projects are run at the same site!	
LIST OF INSTRUMENTATION		
	name of the measurements	deposition
	location of the device (if applicable)	1.5 m above ground
	device(s) used	funnel rain collectors
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly
	name of the measurements	soil solution
	location of the device (if applicable)	20 cm and 40 cm deep in the soil
	device(s) used	suction cup ceramic lysimiters with micrometer pores
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly
	name of the measurements	soil respiration
	location of the device (if applicable)	ground
	device(s) used	LI-COR 6400
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, vegetation period, 2005-
	name of the measurements	TDR
	location of the device (if applicable)	in the soil 0 - 40 cm depth; 0 - 10 cm depth
	device(s) used	TDR100 (textronix model 1502 B/C, Prenart Equipment ApS, Copenhagen, Denmark)
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, vegetation period, 2003-
	name of the measurements	volumetric soil moisture
	location of the device (if applicable)	10 cm, 20 cm, 40 cm deep in the soil
	device(s) used	oven drying method at 105°C for 24 h
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly; 2001-2002
	name of the measurements	meteo station
	location of the device (if applicable)	open air & stand
	device(s) used	Davis Instruments Corp. (USA)
	calibration method of the device (if applicable)	ARSO (national environmental agency)
	frequency of the measurement/temporal resolution	hourly during vegetation period, 2003-
AVAILABLE MEASUREMENT DATA		
	This section should be handled together with the LIST OF INSTRUMENTATION, if applicable. Please leave the cell blank if the listed data is not measured. If it is measured, please fill in the method of the measurement (if different from the general method described in cell B11), the temporal coverage of the data, the possible temporal gaps, the data coverage, and any other relevant information.	
	Aboveground biomass	yes
	Belowground biomass	
	Dead wood	yes
	Litter	yes
	Soil organic matter	yes
	Net ecosystem exchange of CO_2 (NEE)	

	Total ecosystem respiration (R_{eco})	
	Soil respiration	yes
	Net primary production (NPP)	
	Net ecosystem production (NEP)	
	Please list more, if necessary.	
	bulk deposit	2003-
	troughfall - deposits	during vegetation period, 2003-(2005*)-2006
	soil solution - suction-cup lysimetres	during vegetation period, 2003-(2005*)-2006
	*: in year 2005 mesurement were limited	
	name of the measurements	meteo station
	location of the device (if applicable)	open air & stand
	device(s) used	Davis Instruments Corp. (USA)
	calibration method of the device (if applicable)	ARSO (national environmental agency)
	frequency of the measurement/temporal resolution	hourly during vegetation period, 2003-
	Repeat the applicable sections for each measurement!	
AGGREGATED DATA		
	type of data	monthly
	method of calculation	
	available data (from-to, gaps, data coverage)	
	Repeat as necessary!	
SITE 3		**Rajhenav**
LIST OF MONITORING/MEASUREMENT PROGRAMS		
	name/description/aim of the project	NAT-MAN (QLK-CT99-1349) in the 5th EU Framework program; National Program - Slovenian Research Agency (SRA) and Ministry of Agriculture, Forestry and Food (MAFF). The objective of Nat-Man is to help resolve the challenge of sustainable forest management (SFM). The object of the project is European beech forests, representing a large resource for both timber production, biodiversity conservation and life quality. Improved beech management will be a major contribution to the multifunctional utilization of European forest resources. The project delivers scientifically founded policy recommendations and management guidelines for SFM, based on the scientific axiom that nature-based management is a powerful tool in achieving SFM. The scientific work behind these deliverables range from natural forests as a reference point, over a detailed scientific comparison of natural and managed forests, through biological and economical modeling. The objectives of the Nat-Man project will be achieved by a multidisciplinary team of scientists and end-users from eastern and western Europe.
	time frame of the project (start/end)	2001-2004
	measurement methods applied	inventory, microclimate conditions, deposition, soil solution, CWD, ground vegetation inventory, soil moisture
	co-operative partners (if any)	Boneer Consultancy, The Netherlands University of Oxford, Department of Plant Science, United Kingdom Eötvös University, Department of Plant Taxonomy and Ecology, Hungary University of Ljubljana, Biotechnical Faculty, Department of Forestry and Renewable Forest Resources, Slovenia Danish Forest and Landscape Research Institute, Denmark Hungarian Academy of Science, Research Institute of Soil Science and Agrochemistry of Hungary Hungary Slovenian Forestry Institute, Slovenia Alterra Green World Research, Department of Ecology and Environment, The Netherlands University of Freiburg, Institute of Silviculture, Germany Geological Survey of Denmark and Greenland, Dept. Environmental History and Climate, Denmark
	measurement set (number of towers/plots/chronosequences)	1
	target area	CWD, regeneration, of beech, gaps foramation, microclimatic conditions, water and nutrient cycling in managed and not-managed beech forests
	name/description/aim of the project	
	time frame of the project (start/end)	
	measurement methods applied	
	co-operative partners (if any)	
	measurement set (number of towers/plots/chronosequences)	
	target area	
	Repeat if more projects are run at the same site!	
LIST OF INSTRUMENTATION		

	name of the measurements	deposition
	location of the device (if applicable)	1.5 m above ground
	device(s) used	funnel rain collectors
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly
	name of the measurements	soil solution
	location of the device (if applicable)	20 cm and 40 cm deep in the soil
	device(s) used	suction cup ceramic lysimiters with micrometer pores
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly
	name of the measurements	soil respiration
	location of the device (if applicable)	ground
	device(s) used	LI-COR 6400
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, vegetation period, 2005-
	name of the measurements	TDR
	location of the device (if applicable)	in the soil 0 - 40 cm depth; 0 - 10 cm depth
	device(s) used	TDR100 (textronix model 1502 B/C, Prenart Equipment ApS, Copenhagen, Denmark)
	calibration method of the device (if applicable)	SFI
	frequency of the measurement/temporal resolution	monthly, vegetation period, 2003-
	name of the measurements	volumetric soil moisture
	location of the device (if applicable)	10 cm, 20 cm, 40 cm deep in the soil
	device(s) used	oven drying method at 105°C for 24 h
	calibration method of the device (if applicable)	
	frequency of the measurement/temporal resolution	monthly
AVAILABLE MEASUREMENT DATA		
	This section should be handled together with the LIST OF INSTRUMENTATION, if applicable. Please leave the cell blank if the listed data is not measured. If it is measured, please fill in the method of the measurement (if different from the general method described in cell B11), the temporal coverage of the data, the possible temporal gaps, the data coverage, and any other relevant information.	
	Aboveground biomass	yes
	Belowground biomass	
	Dead wood	yes
	Litter	yes
	Soil organic matter	yes
	Net ecosystem exchange of CO_2 (NEE)	
	Total ecosystem respiration (R_{eco})	
	Soil respiration	yes
	Net primary production (NPP)	
	Net ecosystem production (NEP)	
	Please list more, if necessary.	
	bulk deposit	2003-
	troughfall - deposits	during vegetation period, 2003-(2005*)-2006
	soil solution - suction-cup lysimetres	during vegetation period, 2003-(2005*)-2006
	*: in year 2005 mesurement were limited	
	Repeat the applicable sections for each measurement!	
AGGREGATED DATA		
	type of data	monthly
	method of calculation	
	available data (from-to, gaps, data coverage)	
	Repeat as necessary!	