

About the authors

Prof. Dr. Rik Leemans

Prof. Dr. Rik Leemans leads the Environmental Systems Analysis group (www.dow.wur.nl/esa/) of Wageningen University. He co-chairs the Response Option Working group of the Millennium Ecosystem Assessment (www.millenniumassessment.org). He has served as a lead author on all three IPCC Assessment Reports. Previously, he was a senior scientist and project leader of the National Institute of Public Health and the Environment (RIVM), and professor of integrated land-use modelling at Wageningen University.

His early studies at Uppsala University (Sweden) emphasized the successional dynamics and structure of forests. In his subsequent research position at the International Institute of Applied System Analyses (IIASA) in Laxenburg, Austria, he developed several widely-used environmental databases and simulation models to assess the impacts of climate change on ecosystems. Since then his research has evolved into modelling global land-cover patterns and land-use change and climate-change impacts. All these aspects were integrated in RIVM's IMAGE 2 model, which he coauthored. This global model explicitly simulates causal chain of climate change and environmental responses, and is broadly used to support (inter)national environmental assessments and development of greenhouse gas policies.

Ir Arnold van Vliet

Ir Arnold van Vliet is a biologist at the Environmental Systems Analysis group of Wageningen University and at the Foundation for Sustainable Development. Since his Biology study at Wageningen University he specialized in monitoring, analyzing and forecasting the ecological impacts of climate change on spatial scales ranging from global to local. He initiated and coordinates the Dutch phenological network De Natuurkalender (<http://www.natuurkalender.nl/>). He is vice-chair of COST Action 725, which aims to establish a European phenological data platform for climatological applications (<http://www.cost725.org/>) and he coordinated the European Phenology Network, which aims to increase efficiency, added value and use of phenological monitoring and research in Europe in the context of global climate change.

Appendix: Newly added plant species to the Standard list of the Dutch Flora.

New plant species, which are added to the official standard list of the Dutch flora, published in September 2004. These plant species share two criteria: They are observed in three different localities and have survived for at least three generations. The plant species with the attribute 'will be added' are also observed in The Netherlands but do not yet comply with the location and reproduction criteria. They are therefore nominated for the next standard list.

Trivial Dutch name	Scientific name	Attribute
Aarereprijs	<i>Veronica spicata</i>	will be added
Akkerwikke	<i>Vicia sativa</i> subsp. <i>Segetalis</i>	Added
Anna Paulownaboom	<i>Paulownia tomentosa</i>	will be added
Balkanvergeet-mij-nietje	<i>Brunnera macrophylla</i>	will be added
Behaarde struweelroos	<i>Rosa caesia</i>	Added
Beklierde heggenroos	<i>Rosa tomentella</i>	Added
Beklierde heggenroos	<i>Rosa tomentella</i>	Added
Berijpte viltroos	<i>Rosa sherardii</i>	Added
Beverneltorkruid	<i>Oenanthe pimpinelloides</i>	Added
Blauw kattenkruid	<i>Nepeta mussinii</i>	will be added
Blauwe monnikskap	<i>Aconitum napellus</i> (s.l.)	will be added
Bleek cypergras	<i>Cyperus eragrostis</i>	will be added
Boogmispel	<i>Cotoneaster sternianus</i>	will be added
Bosogentroost	<i>Euphrasia nemorosa</i>	Added
Bossalie	<i>Salvia nemorosa</i>	will be added
Bottelroos	<i>Rosa villosa</i>	Added
Brandpastinaak	<i>Pastinaca sativa</i> subsp. <i>Urens</i>	Added
Brede dovenetel	<i>Lamium confertum</i>	Added
Breed pijlkruid	<i>Sagittaria latifolia</i>	will be added
Chinese naaldaar	<i>Setaria faberi</i>	will be added
Citroenmelisse	<i>Melissa officinalis</i>	Added
Dalmatiëklokje	<i>Campanula portenschlagiana</i>	will be added
Dessertbladen	<i>Malva verticillata</i>	will be added
Donzige klaproos	<i>Papaver atlanticum</i>	will be added
Doorwaskervel	<i>Smyrniurnium perfoliatum</i>	will be added
Draadfonteinkruid	<i>Potamogeton filiformis</i>	Added

Trivial Dutch name	Scientific name	Attribute
Driebladvetkruid	<i>Sedum sarmentosum</i>	will be added
Eendagsbloem	<i>Tradescantia virginiana</i>	will be added
Fazantenbes	<i>Leycesteria formosa</i>	will be added
Fijn venushaar	<i>Adiantum raddianum</i>	will be added
Frans walstro	<i>Galium parisiense</i>	will be added
Fransje	<i>Schoenoplectus x flevensis</i>	Added
Galega	<i>Galega officinalis</i>	will be added
Geel duizendblad	<i>Achillea filipendulina</i>	will be added
Gekield druifkruid	<i>Chenopodium schraderianum</i>	will be added
Gele ribes	<i>Ribes odoratum</i>	will be added
Gevlamde fijnstraal	<i>Conyza bonariensis</i>	will be added
Grijs kattenkruid	<i>Nepeta x faassenii</i>	will be added
Groot nagelkruid	<i>Geum japonicum</i>	will be added
Hanendoorn	<i>Crataegus crus-galli</i>	will be added
Heggenroos	<i>Rosa corymbifera</i>	Added
Hoge amarant	<i>Amaranthus rudis</i>	will be added
Hoge dravik	<i>Anisantha diandra</i>	will be added
Hoge fijnstraal	<i>Conyza sumatrensis</i>	Added
Hondsroos	<i>Rosa canina (s.s.)</i>	Added
IJle kropaar	<i>Dactylis polygama</i>	Added
IJle lamsoor	<i>Limonium humile</i>	will be added
Kale gierst	<i>Panicum dichotomiflorum</i>	Added
Kale struweelroos	<i>Rosa dumalis</i>	Added
Karpatenklokje	<i>Campanula carpatica</i>	will be added
Klein fakkelgras	<i>Rostraria cristata</i>	will be added
Klein struisgras	<i>Agrostis hyemalis</i>	will be added
Kleinbloemige roos	<i>Rosa micrantha</i>	Added
Kleverige alant	<i>Dittrichia viscosa</i>	will be added
Knobbelklaverzuring	<i>Oxalis dillenii</i>	Added
Knopkroos	<i>Lemna turionifera</i>	Added
Kogelduizendknoop	<i>Persicaria capitata</i>	will be added
Kraagroos	<i>Rosa agrestis</i>	Added
Kruipkattenstaart	<i>Lythrum junceum</i>	will be added
Kruipklokje	<i>Campanula poscharskyana</i>	will be added
Kruishyacint	<i>Scilla massartiana (x)</i>	Added
Kustwolfsmelk	<i>Euphorbia portlandica</i>	will be added
Laurierkers	<i>Prunus laurocerasus</i>	will be added
Lijsterbesspirea	<i>Sorbaria sorbifolia</i>	will be added
Lintvaren	<i>Pteris cretica</i>	will be added
Loganbes	<i>Rubus loganobaccus</i>	will be added
Mariëttelokkje	<i>Campanula medium</i>	will be added
Marjoleinbekje	<i>Chaenorhinum origanifolium</i>	will be added
Monnikskruid	<i>Nonea lutea</i>	will be added
Muurzeepkruid	<i>Saponaria ocymoides</i>	will be added
Oosterse klaproos	<i>Papaver pseudoorientale</i>	will be added
Oosterse plataan	<i>Platanus orientalis</i>	will be added
Piramideklokje	<i>Campanula pyramidalis</i>	will be added
Pluimgipskruid	<i>Gypsophila paniculata</i>	will be added
Prachtrozenkransje	<i>Anaphalis margaritacea</i>	will be added

Trivial Dutch name	Scientific name	Attribute
Prikneus	<i>Lychnis coronaria</i>	Added
Ribbelbies	<i>Schoenoplectus mucronatus</i>	will be added
Rijncentaurie	<i>Centaurea stoebe</i>	Added
Rimpelige mispel	<i>Cotoneaster rehderi</i>	will be added
Rivierduinzegge	<i>Carex ligerica</i>	Added
Rode ribes	<i>Ribes sanguineum</i>	will be added
Rood herderstasje	<i>Capsella rubella</i>	will be added
Rotsschildzaad	<i>Alyssum saxatile</i>	will be added
Roze berberis	<i>Berberis aggregata</i>	will be added
Ruige fijnstraal	<i>Conyza bilbaoana</i>	will be added
Ruwe viltroos	<i>Rosa pseudoscabriuscula</i>	Added
Schijnegelantier	<i>Rosa columnifera</i>	Added
Schijn-els	<i>Clethra alnifolia</i>	will be added
Schijnheggenroos	<i>Rosa subcollina</i>	Added
Schijnhondsroos	<i>Rosa subcanina</i>	Added
Schijnpapaver	<i>Meconopsis cambrica</i>	will be added
Slaapkamergeluk	<i>Soleirolia soleirolii</i>	will be added
Slanke ogentroost	<i>Euphrasia micrantha</i>	Added
Smal venushaar	<i>Adiantum diaphanum</i>	will be added
Spaanse dravik	<i>Anisantha madritensis</i>	will be added
Spaanse hyacint	<i>Scilla hispanica</i>	will be added
Steentijmereprijs	<i>Veronica acinifolia</i>	will be added
Stekelkamgras	<i>Cynosurus echinatus</i>	will be added
Stijf ijzerhard	<i>Verbena bonariensis</i>	will be added
Stijve aardpeer	<i>Helianthus rigidus</i>	will be added
Texaanse ganzenvoet	<i>Chenopodium berlandieri</i>	will be added
Trompetboom	<i>Catalpa bignonioides</i>	will be added
Tweekleurig springzaad	<i>Impatiens balfourii</i>	will be added
Tweenervige zegge	<i>Carex binervis</i>	will be added
Valse zandzegge	<i>Carex reichenbachii</i>	Added
Vierrijige ogentroost	<i>Euphrasia tetraquetra</i>	Added
Viltroos	<i>Rosa tomentosa</i>	Added
Vlokkige toorts	<i>Verbascum pulverulentum</i>	will be added
Vroege krokus	<i>Crocus chrysanthus</i>	will be added
Walstroleeuwenbek	<i>Linaria purpurea</i>	will be added
Waterteunisbloem	<i>Ludwigia grandiflora</i>	Added
Welriekende ganzenvoet	<i>Chenopodium ambrosioides</i>	will be added
Wigbladige roos	<i>Rosa elliptica</i>	Added
Wilde kool	<i>Brassica oleracea</i> subsp. <i>oleracea</i>	Added
Wilgbladige mispel	<i>Cotoneaster salicifolius</i>	will be added
Witte esdoorn	<i>Acer saccharinum</i>	will be added
Zijdeplant	<i>Asclepias syriaca</i>	Added
Zilverkruiskruid	<i>Senecio cineraria</i>	will be added
Zilverstruisgras	<i>Agrostis scabra</i>	will be added
Zuid-Afrikaanse gierst	<i>Panicum schinzii</i>	Added
Zwart peperboompje	<i>Daphne laureola</i>	will be added
Zwarte wikke	<i>Vicia sativa</i> subsp. <i>nigra</i>	Added

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WWF Climate Change Campaign

Global warming and climate change pose a serious threat to the survival of many species of plants and animals and the well-being of people around the world.

The programme has two aims:

- By 2010 the world has made significant progress to stay below a 2 degree C increase in global average temperature (in comparison to pre-industrial levels), and
- 50 countries are implementing adaptation strategies in key Ecoregions/biomes and sectors of their economies on the basis of national plans, for the reduction of vulnerability of climate change.

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