

Groupes indicateurs édaphiques
selon le système de classification du canton de Vaud

Présentation et commentaires:

CLOT F, DELARZE R (2009) Typologie des groupements végétaux forestiers du canton de Vaud: rupture nécessaire d'une tradition. Journal forestier suisse.

M: mésophiles	M1: ubiquistes	
	M11: forestières à large spectre	<i>Anemone nemorosa, Carex sylvatica, Dryopteris filix-mas, Galium odoratum, Hordeum europaeus, Lamium galeobdolon, Miliium effusum, Phyteuma spicatum, Polygonatum multiflorum, Polygonatum verticillatum, Potentilla sterilis, Sanicula europaea, Senecio ovatus, Vinca minor, Viola reichenbachiana</i>
	M12: sols à texture fine	<i>Carex pilosa, Galium sylvaticum, Melica uniflora</i>
	M13: surtout en lisière	<i>Ajuga reptans, Aposeris foetida, Pimpinella major, Trifolium medium, Veronica chamaedrys, Vicia sepium</i>
	M2: tendance basophile	
	M21: à large spectre	<i>Brachypodium sylvaticum, Bromus benekenii, Bromus ramosus, Euphorbia dulcis, Primula acaulis</i>
	M22: humidité changeante	<i>Carex flacca, Centaurea montana, Salvia glutinosa,</i>
	M3: tendance hygrophile	
	M31: forestières à large spectre	<i>Cardamine impatiens, Circaea alpina, Paris quadrifolia, Plagiomnium undulatum, Primula elatior, Ranunculus lanuginosus</i>
	M32: arbustes	<i>Euonymus europaeus, Sambucus nigra, Viburnum opulus</i>
	M33: humidité changeante	<i>Knautia sylvatica, Valeriana officinalis</i>
	M34: fougères	<i>Athyrium filix-femina, Dryopteris borreeri, Dryopteris carthusiana, Dryopteris dilatata</i>
	M35: espèces des ravins	<i>Actaea spicata, Polystichum aculeatum</i>
	M4: tendance nitrophile	
	M41: méso-hygrophiles	<i>Galium aparine, Geum urbanum, Glechoma hederacea, Impatiens parviflora, Urtica dioica</i>
M42: mésophiles	<i>Alliaria petiolata, Chaerophyllum temulum, Cynoglossum germanicum, Geranium robertianum, Heracleum sphondylium, Lapsana communis</i>	
X: xérophiles	X1: xéro-héliophiles	
	X11: arbustes du manteau	<i>Amelanchier ovalis, Colutea arborescens, Cotoneaster integerrimus, C. tomentosus, Prunus mahaleb, Rhamnus alpina, Ruscus aculeatus</i>
	X12: herbacées de l'ourlet	<i>Aceras anthropophorum, Anthericum ramosum, Bupleurum falcatum, Geranium sanguineum, Limodorum abortivum, Melampyrum cristatum, Peucedanum cervaria, Peucedanum oreoselinum, Polygonatum odoratum, Trifolium alpestre, Trifolium rubens, Vincetoxicum hirsutiflorum</i>
	X13: prairies sèches	<i>Abietinella abietina, Acinos arvensis, Anacamptis pyramidalis, Anthericum liliago, Anthyllis vulneraria, Arabis hirsuta, Bromus erectus, Carex halleriana, Carex humilis, Festuca ovina, Helianthemum nummularium, Hippocrepis comosa, Pimpinella saxifraga, Potentilla neumanniana, Ranunculus bulbosus, Sanguisorba minor, Saponaria ocyroides, Scabiosa columbaria, Silene nutans, Stachys recta, Teucrium chamaedrys, Teucrium montanum</i>
	X14: pelouses d'altitude	<i>Acinos alpinus, Alchemilla conjuncta, Campanula thyrsoidea, Carex sempervirens, Daphne cneorum, Globularia nudicaulis, Laserpitium siler, Peucedanum austriacum, Phyteuma orbiculare, Sesleria caerulea, Thesium alpinum</i>
	X2: xérophiles forestières	
	X21: chênaies et hêtraies sèches	<i>Arabis turrata, Brachypodium pinnatum, Buglossoides purpurocaerulea, Campanula persicifolia, Carex alba, Cornus mas, Hippocrepis emerus</i>
	X22: pinèdes et pessières sèches	<i>Arctostaphylos uva-ursi, Aster amellus, Buphthalmum salicifolium, Carduus defloratus, Carex ornithopoda, Epipactis atrorubens, Erica carnea, Gymnadenia odoratissima, Polygala chamaebuxus</i>

	X3: méso-xérophiles	
	X31: herbacées ± indifférentes au pH	<i>Campanula rotundifolia, Carex montana, Convallaria majalis, Hypericum montanum, Potentilla micrantha, Primula veris ssp.columnae, Primula veris ssp.veris, Viola hirta</i>
	X32: arbustes	<i>Berberis vulgaris, Buxus sempervirens, Juniperus communis, Juniperus communis ssp.nana, Laburnum alpinum, Mespilus germanica, Pyrus pyraster</i>
	X33: herbacées acidophiles	<i>Festuca heterophylla, Genista sagittalis, Lathyrus linifolius, Lathyrus niger, Stachys officinalis</i>
	X34: herbacées basophiles	<i>Cephalanthera damasonium, Cephalanthera longifolia, Cephalanthera rubra, Hepatica nobilis, Melittis melissophyllum, Orchis purpurea, Rubus saxatilis</i>
	X35: méso-héliophiles	<i>Campanula rapunculoïdes, Clinopodium vulgare, Inula conyza, Laserpitium latifolium, Origanum vulgare</i>
	X36: héliophiles	<i>Briza media, Carlina acaulis, Centaurea scabiosa, Cirsium acaule, Coronilla vaginalis, Euphorbia cyparissias, Galium pumilum, Gentiana germanica, Gentiana lutea, Hieracium pilosella, Polygala vulgaris, Prunella grandiflora, Thymus pulegioides</i>
W	W1: mésophiles	<i>Calamagrostis varia, Cypripedium calceolus, Gymnadenia conopsea, Molinia arundinacea</i>
	W2: à tendance hygrophile	<i>Aster bellidiatrum, Gentiana asclepiadea, Tusilago farfara</i>
	W3: à tendance xérophile	<i>Carlina vulgaris, Genista tinctoria, Inula salicina, Serratula tinctoria</i>
H: hygrophiles	H1: très hygrophiles	
	H11: herbacées à large spectre	<i>Caltha palustris, Carex acutiformis, Chrysosplenium alternifolium, Crepis paludosa, Epilobium hirsutum, Filipendula ulmaria, Galium palustre, Geum rivale, Iris pseudacorus, Lythrum salicaria, Mentha aquatica, Myosoton aquaticum, Phragmites australis, Scirpus sylvaticus</i>
	H12: paludéennes	<i>Carex elata, Carex elongata, Carex vesicaria, Lycopus europaeus, Lysimachia vulgaris, Scutellaria galericulata, Thelypteris palustris</i>
	H13: ruisseaux et sources	<i>Cardamine amara, Cratoneuron sp., Glyceria fluitans, Glyceria notata, Nasturtium officinale, Petasites hybridus, Veronica beccabunga</i>
	H14: sources et remblais humides	<i>Equisetum telmateia</i>
	H15: arbustes	<i>Ribes nigrum, Salix aurita, Salix cinerea</i>
	H16: bas-marais	<i>Carex davalliana, Carex paniculata, Cirsium rivulare, Dactylorhiza fistulosa, Equisetum palustre, Lotus pedunculatus, Mentha longifolia, Molinia caerulea, Myosotis scorpioides, Parnassia palustris, Pinguicula vulgaris, Sanguisorba officinalis, Succisa pratensis, Tofieldia calyculata, Valeriana dioica</i>
	H2: hygrophiles	
	H21: arbustes	<i>Humulus lupulus, Prunus padus, Ribes rubrum, Rubus caesius</i>
	H22: herbacées	<i>Carex brizoides, Carex pendula, Carex remota, Cirsium palustre, Eupatorium cannabinum, Juncus effusus, J. inflexus</i>
	H23: sources, alluvions et colluvions	<i>Equisetum hyemale</i>
	H24: lisières	<i>Lysimachia nummularia, Polygonum bistorta</i>
	H3: méso-hygrophiles	
	H31: à large spectre	<i>Adoxa moschatellina, Angelica sylvestris, Cardamine flexuosa, Circaea lutetiana, Deschampsia cespitosa, Festuca gigantea, Impatiens noli-tangere, Lysimachia nemorum, Ranunculus auricomus, Ranunculus ficaria, Stachys sylvatica, Veronica montana</i>
	H32: méso-acidophiles	<i>Equisetum sylvaticum</i>
	H33: méso-basophiles	<i>Allium ursinum, Anemone ranunculoides, Corydalis cava, Corydalis intermedia, Lathraea squamaria, Leucjum vernalis, Ornithogalum pyrenaicum</i>
	H34: sols riches	<i>Aegopodium podagraria, Agropyron caninum, Carduus personata, Cirsium oleraceum, Silene dioica</i>
	H35: héliophiles	<i>Agrostis stolonifera, Cardamine nemorosa, Cardamine pratensis, Colchicum autumnale, Equisetum arvense, Hypericum tetrapterum, Lamium maculatum, Listera ovata, Mentha arvensis, Poa trivialis, Ranunculus repens, Solanum dulcamara, Solidago canadensis, Solidago gigantea</i>
	H4: mégaphorbiées	
	H41: à large spectre	<i>Achillea macrophylla, Aconitum altissimum, Aconitum neomontanum, Adenostyles alliariae, Alnus viridis, Athyrium distentifolium, Chaerophyllum hirsutum, Chaerophyllum villarsii, Cicerbita alpina, Cicerbita plumieri, Epilobium alpestre, Geranium sylvaticum, Hieracium prenanthoides, Peucedanum ostruthium, Poa hybrida, Ranunculus aconitifolius, Ranunculus platanifolius, Rumex alpestris, Saxifraga rotundifolia, Stellaria nemorum, Streptopus amplexifolius, Thalictrum aquilegifolium, Tozzia alpina, Viola biflora</i>
	H42: surtout sur terrain glissant	<i>Aruncus dioicus, Petasites albus</i>
	H43: plutôt basophiles	<i>Aconitum variegatum ssp.paniculatum, Anthriscus nitida, Campanula latifolia, Delphinium elatum, Geranium phaeum, Myrrhis odorata</i>
	H44: pâturage	<i>Aconitum compactum, Campanula rhomboidalis, Hypericum maculatum, Senecio alpinus, Trollius europaeus, Veratrum album</i>

A: acidophiles	A1: tous humus acides	
	A11: à large spectre	<i>Calamagrostis villosa, Carex pilulifera, Deschampsia flexuosa, Homogyne alpina, Huperzia selago, Luzula luzulina, Luzula sylvatica, Melampyrum sylvaticum, Pyrola minor, Vaccinium myrtillus</i>
	A12: sols frais	<i>Blechnum spicant, Oreopteris limbosperma,</i>
	A13: sols séchards	<i>Calluna vulgaris, Leucobryum glaucum</i>
	A14: héliophiles	<i>Carex pallescens, Potentilla erecta, Pteridium aquilinum</i>
	A15: mousses	<i>Dicranum scoparium, Hylocomium splendens, Pleurozium schreberi, Polytrichum formosum, Rhytidiadelphus loreus</i>
	A2: mull acide et moder	
	A21: forestières	<i>Lonicera periclymenum, Luzula forsteri, Luzula luzuloides, Melampyrum pratense</i>
	A22: héliophiles	<i>Agrostis capillaris, Anthoxanthum odoratum, Genista germanica, Hieracium sabaudum, Hieracium umbellatum, Holcus mollis, Luzula campestris, Luzula multiflora, Teucrium scorodonia, Veronica officinalis</i>
	A3: humus brut	
	A31: sur mor	<i>Astrantia minor, Listera cordata, Lonicera caerulea, Lycopodium annotinum, Lycopodium clavatum, Ptilium crista-castrensis, Rhododendron ferrugineum, Vaccinium gaultherioides, Vaccinium vitis-idaea</i>
	A32: sur tourbe	<i>Andromeda polifolia, Carex canescens, Carex echinata, Carex nigra, Eriophorum vaginatum, Polytrichum commune, Polytrichum strictum, Sphagnum sp., Vaccinium oxycoccos, Vaccinium uliginosum</i>
	A33: héliophiles	<i>Antennaria dioica, Arnica montana, Campanula barbata, Gentiana kochiana, Gentiana purpurea, Nardus stricta, Phyteuma betonicifolium, Potentilla aurea</i>
	A4 méso-acidophiles	
A41: acidophilie variable selon les régions	<i>Luzula nivea</i>	
A42: enrésinement	<i>Galium rotundifolium, Maianthemum bifolium</i>	
A43: fougères	<i>Gymnocarpium dryopteris, Phegopteris connectilis</i>	
B: basophiles	B1: calcicoles	
	B11: calcicoles strictes	<i>Asarum europaeum, Cardamine heptaphylla, Cardamine pentaphyllos, Cyclamen purpurascens, Daphne laureola, Daphne mezereum, Helleborus foetidus, Lathyrus vernus, Valeriana montana, Viola mirabilis</i>
	B12: calcicole préférentielle	<i>Mercurialis perennis</i>
	B2: méso-basophiles	
	B21: herbacées	<i>Arum maculatum, Euphorbia amygdaloides, Liliun martagon, Melica nutans, Narcissus pseudonarcissus, Pulmonaria mollis, Pulmonaria obscura, Pulmonaria officinalis, Scilla bifolia</i>
	B22: arbustes et lianes	<i>Acer campestre, Clematis vitalba, Cornus sanguinea, Ligustrum vulgare, Lonicera alpigena, Prunus spinosa, Rhamnus cathartica, Ribes alpinum, Rosa div.sp., Tamus communis, Viburnum lantana</i>
B23: subalpines	<i>Arctostaphylos alpina, Dryas octopetala, Rhododendron hirsutum, Sorbus chamaemespilus</i>	
S: saxicoles	S1: rochers et blocs stables	
	S11: large spectre	<i>Asplenium trichomanes, Moehringia muscosa,</i>
	S12: hygrosociaphiles	<i>Asplenium viride, Cystopteris fragilis, Phyllitis scolopendrium</i>
	S13: xéro-thermophiles	<i>Asplenium adiantum-nigrum, Asplenium fontanum, Asplenium ruta-muraria, Erinus alpinus, Kerneria saxatilis, Saxifraga paniculata, Sedum album, Sedum montanum, Sedum telephium ssp.maximum</i>
	S14: acidophiles	<i>Polypodium interjectum, Polypodium vulgare, Saxifraga cuneifolia</i>
	S15: mousses	<i>Ctenidium molluscum, Neckera complanata, Neckera crispa</i>
	S2: éboulis	
	S21: large spectre	<i>Adenostyles glabra, Campanula cochlearifolia, Gymnocarpium robertianum, Polystichum lonchitis</i>
S22: hygrosociaphiles	<i>Arabis alpina, Lunaria rediviva, Polystichum setiferum</i>	
S23: xérophiles	<i>Achnatherum calamagrostis</i>	