

MAIN WEED SCIENCE BOOKS / PRINCIPAUX TRAITES DE MALHERBOLOGIE

(mars.2019, Daniel Chicouène)

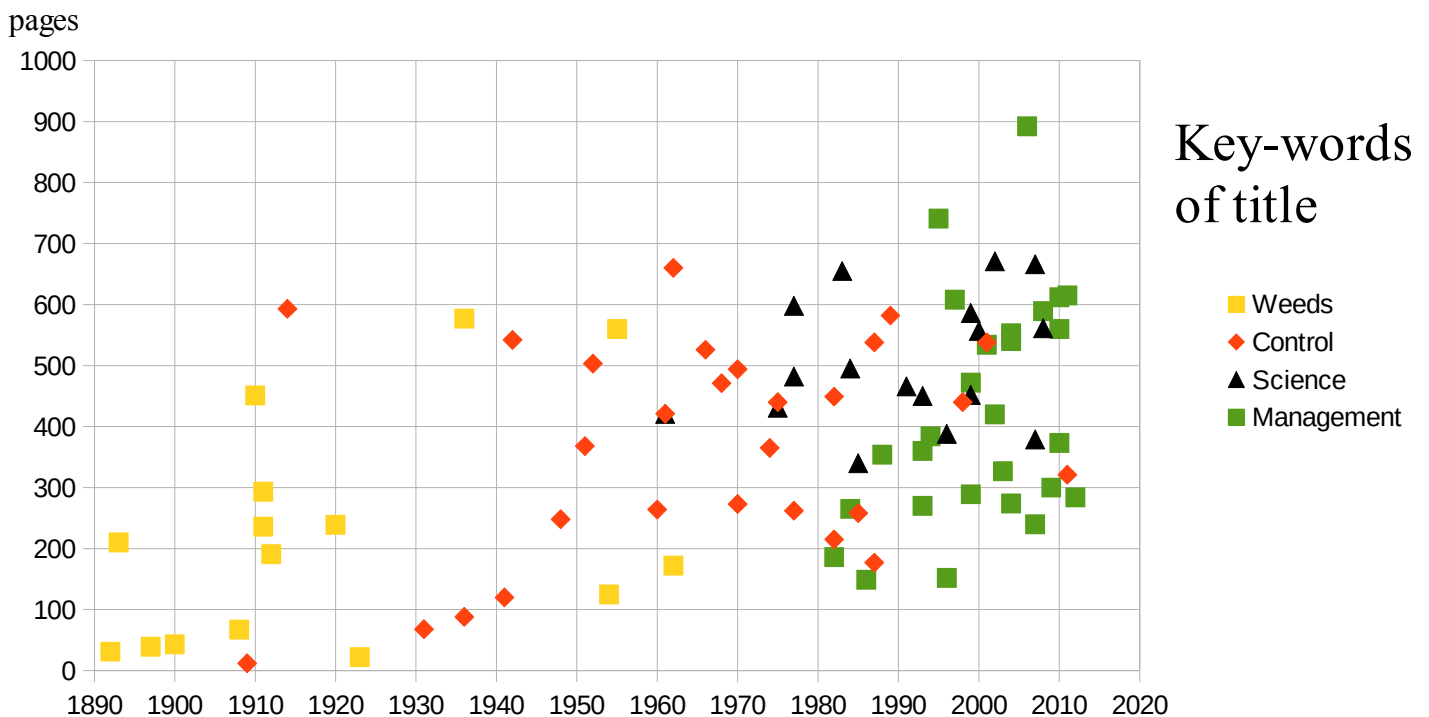
This page :	p. :	to date :
1-Textbooks in weed science <i>in english</i> : key-words of title	1	june 2017
-chronological list + contents	"	mars. 2019
-annexe : 1 comparative table of contents	37	2015
2- en allemand [<i>in german</i>] p.37	38	2017
3- en français [<i>in french</i>] p.37	38	"

Ordre chronologique (année) dans chacune des 3 parties, puis (par an) ordre alphabétique.

Légende des couleurs/ colors :

biologie/biology **lutte/control/chemic.** **cultures/crops** **nuisibilité/harmful** **peuplement** **botanique/botany**

1- books in english [ouvrages en anglais] :



HOLDICH Benjamin, SINCLAIR G. 1826 - An essay on the weeds of agriculture : with their common and botanical names ; their respective characters and bad qualities ; wether as infesting samples or corn or encumbering the soil ; also practical remarks on their destruction, by fallowing or otherwise. Ridgway, London, 82 p.

<http://archive.org/details/anessayonweedsa00sincgoog>

[Preface IX-XV

Introduction 1

chapter I) Of the weeds which infest samples of corn 4 (Bromus secalinus ; Agrostemma githago ; Melilot ; Ervum tetraspermum ; Avena fatua ; Galium aparine ; Polygonum convolvulus ; Scandix p. ; Polygonum lapathifolium ; Charlock)

II)Of fallow weeds, or such as are rooted or hard to destroy 74 (couch T.repens ; Holcus m.; Ononis arvensis ; Carduus arvensis ; Rumex crispus ; Avena elatior ; Tussilago f.; Convolvulus arvensis ; Daucus carota ; Torilis infesta ; Aethusa... ; Mentha arvensis ; Agrostis stolonifera ; Polygonum aviculare ; Alopecurus agrestis)

III)Of rampant w, which encumber the soil 45 (Sinapis arvensis ; Papaver rhoeas ; Centaurea cyanus ; Anthemis cotula ; Chrysanthemum segetum)

IV)Of the w which nerver rise into the sichkle, or ndering w, with observations on pasture w 52 (Senecio vulgaris, Poa annua, Stellaria media, T. bursa-pastoris ; Spargula arvensis ; M. chamomilla ; Atriplex hastata...) **Of pasture weeds p61-70**

Appendix : Containing some account of the mode of cleaning heavy lands infested ... DICKSON 71-78

Index 79-82]

MICHENER Ezra 1872 - A manual of weeds, or, the weed exterminator ; being a description, botanical and familiar, of a centur of weeds injurious to the farmer, with practical suggestions for their extermination. King, Philadelphia, 148 p. [c] <<http://archive.org/stream/practicalditcher119#page/n0/mode/2up>>
[Errata V
Addenda VI
Synopsis of the manual VII-XX
-What is a w VIII (annuals IX,...)
-Farmers, attention XVIII-XX
Hand book of w ; series I Phanerogamous 1-114 (100 sp.) [monoco. p105 ; Gram.p105-114]
Glossary 115
Index [des taxa] 137-148]

LAMSON-SCRIBNER F., NEWMAN C.L. 1888 - Preliminary report on the weeds of the farm.
Knoxville : University of Tennessee, Agricultural Experiment Station, 29-52 (= 24 p)
<<http://babel.hathitrust.org/cgi/pt?id=uiug.30112019862405;seq=22;view=1up;num=44>> [surtout Flore]
[introduction 29
weeds 34 (Capsella bursa-p... Dicot = c52 sp)
-grasses 43. (5 sp)
IX pl.]

SHAW Thomas 1892 - Weeds and modes of destroying them. Ontario Agricultural College, Bulletin LXXXV, Toronto, 31 p. <http://archive.org/stream/cihm_26386#page/n5/mode/2up>
[W 3
General principles to be observed in destroying w 5
Specific modes of destroying... 9
An act to prevent the spread of noxious w... 29-31]

SHAW Thomas 1893 - Weeds and how to eradicate them. Bryant, Toronto, 210 p., ed. 1
<http://archive.org/details/cihm_26388>
[Prefatory
chapter I)Prevalence of w 1
II)Evils which arise from the presence of w p7 (robe nutriment ; crowding shading ; cleaning grain ; ... interfere rotation)
III)Possibility of destroying w p14
IV)Agencies concerned in the distribution and propagation of noxious w p32
V)Methods and principles generally applicable in the destruction of w p50 (study their habits of growth ; rotation ; clean seed ; threshing machines ; ...)
VI)Specific modes of eradicating certain troublesome w p103 (14 sp)
VII)Specific modes of eradicating certain w specially troublesome on the western prairies p177 (6 sp)]
Index [table des matières] 209-210]

SHAW Thomas 1896 - Weeds and how to eradicate them. Second edition, Saint-Paul Webb Publishing, 210 p. [sommaire idem 1893 (ré-impression ?) ; (ed 1 = 1893 ; ed 3 1911)
<<http://babel.hathitrust.org/cgi/pt?id=coo.31924002888471;seq=218;view=1up;num=210>>

anonymous (MANITOBA) 1897 - Noxious weeds and how to destroy them. Department of agriculture, n°3, Winnifeg, 39 p.
<http://archive.org/details/cihm_61000>
[Noxious w of Manitoba 2-9 [generalites]
Description of various w 9-31 [32 sp]
W seeds and lillins industry 31-32
Noxious w 33-35 [legislation]
Table fo w 36-39 (... , duration, time of flowering, time of seeding, color... flowers, propagation..., place of growth, methods of eradication) = tableau à 2 entrées pour 75 sp]

FLETCHER J. 1900 - Noxious weeds and how to destroy them. Department of agriculture, Government of the North-West Territories, Bulletin n°2 : 43 p.
<http://archive.org/details/cihm_93709>
[...
What is a w 9
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BOLLEY Henry Luke 1908 – Weeds and methods of eradication : weed control by means of chemical sprays. North Dakota Agricultural College, pp. 507-574 (= 67 p)

en ligne : <<http://babel.hathitrust.org/cgi/pt?id=uiug.30112019781704;num=503;seq=1;view=1up>>

[(intro) 513

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When w are a benefit 524

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W destruction or control by means of chemical sprays 541

Control or eradication of special w (7 sp) 557-573) Brassica sinapistrum, Ambrosia trifida, Carduus arvensis 559, dandelions 564, Sonchus arvensis 567, Agropyron repens 568, Avena fatua 570, list of w controlled/as now in use are not effective 571, poisoning 573]

ADAMS G.E. 1909 - Weeds, their eradication and control. Rhode Island Agricultural Experiment Station, Bulletin n°133 : 49-61. (= 13 p)

<<http://babel.hathitrust.org/cgi/pt?id=uiug.30112019836474;num=51;seq=7;view=1up>>

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Classes of weeds 52 (annual...)

General methods of control 52 (clean seeds, harrow)

Eradication by spraying 54

Expe iron sulfate 55

Spraying miscellaneous plants 59

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LONG Harold C., PERCIVAL John 1910 - Common weeds of the farm & garden. Stokes Company, New York, 451 p.

<<http://archive.org/details/commonweedssofar00longrich>>

[Introduction VII

Chapter I)What w are, how they affect... 1 (Uses of w 2 ; Harm 6

II)Classes of w and how they are spread 18 (soils...)

III)General preventive and remedial measures 29 (prevention : good cultivation, dense crop, seeding, sowing clean seed, rotation...; remedy : cultivation, irrigation, spraying ; chemical)

IV)W of arable land 49 (c50 sp)

V)improvement of grass land 138

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VIII)poisonous 276

IX)ponds, rivers, ditches 322

X)lawns, drives 345

XI)principles of seed testing 353

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PAMMEL L.H. 1911 - Weeds of the farm and garden. Orange Judd Company, New York, XI + 281 p. [ré-impression in ed. 1912 probablement]

<<http://archive.org/details/weedsfarmgarde00pammrich>>

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 XIV) Descriptions of some common w 135 (Pterido 2sp ; Mono 40 sp ; Dicot p.160 158 sp + Compos. p230 56 sp) = 256 sp
 XV) Bibliography 255
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SHAW Thomas 1911 - Weeds and how to eradicate them. Third edition (revised). Webb Publishing, 236 p. (ed.1 = 1893 ; ed.2 = 1896)

<<http://archive.org/details/weedshowtoeradic01shaw>>

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II) Evils which arise from the presence of w p13

III) Possibility of destroying w p21

IV) Agencies concerned in the distribution and propagation of noxious w p40

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VII) Methods of eradicating w of the mustard family 149

VIII) Eradication of weedy grasses 175

IX) Specific modes of eradicating miscellaneous troublesome w 196

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BLATCHLEY W.S. 1912 - The Indiana weed book. Indianapolis, 191 p. (ed.1) (ed2 = 1920, 3 = 1930)

<<http://archive.org/stream/indianaweedbook00blatgoog#page/n8/mode/2up>>

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Descriptive catalogue of Indiana w 51

Books and papers [biblio] 182

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PAMMEL Louis Hermann 1912 - Weeds of the farm and garden. Orange Judd Company, New York, XI + 281 p. [ré-impression de ed. 1911 probablement]

<<http://babel.hathitrust.org/cgi/pt?id=mdp.39015061201169;seq=2;view=1up>>

<<http://archive.org/details/weedsoffarmgarde00pammuoft>>

GEORGIA Ada E. 1914 - A manual of weeds, with descriptions of all of the most pernicious and troublesome plants in the United-States and Canada, their habits of growth and distribution, with methods of control ;. with illustrations by Mathews. Macmillan, New York, 593 p. <<http://archive.org/details/amanualweedswit00georgoog>>

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GEORGIA Ada E. 1916 - A manual of weeds, ... [ré-impression de 1914 probablement]
<<http://archive.org/stream/manualofweedsuit00georiala#page/n9/mode/2up>>

GEORGIA Ada E. 1919 - A manual of weeds, ... [ré-impression de 1914 probablement]
<<http://archive.org/details/amanualweedswit01georgoog>>

BLATCHLEY W.S. 1920 - The Indiana weed book. ed. 2 (ed1 = 1912 ; ed.3 = 1930)

BRENCHLEY Winifred E. , 1920 - Weeds of farm land. Longman, Green and Co., London.
239 p.

<<http://archive.org/stream/weedsoffarmland00brenuoft#page/n9/mode/2up>>

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ULLRICH Fred T. 1923 - The study of weeds. A supplementary textbook for teachers and students of Agriculture.... Eau Claire Books, Wisconsin, 22 p.

<<http://babel.hathitrust.org/cgi/pt?id=wu.89047163035;q1=ullrich%20weeds;seq=1;view=1up>>

PETRY E.J. 1924 - Weeds and their control. Brookings, S.D. : Agricultural Experiment Station, South Dakota State College of Agriculture and Mechanic Arts 83 p.

BLATCHLEY W.S. 1930 (+1912+1920) - The Indiana weed book. Indianapolis, ed.3, 191 p.

<<http://babel.hathitrust.org/cgi/pt?id=coo.31924001288137;seq=1;view=1up>>

BALL W.S., MADSON B.A., ROBBINS W.W. 1931 - The control of weeds. California Agricultural Extension Service, Circular 54 : 68 p.

<<http://archive.org/stream/controlofweeds54ball#page/n0/mode/2up>>

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BALL W.S., CRAFTS A.S., MADSON B.A., ROBBINS W.W. 1936 - Weed control. California

Agricultural Extension Service, Circular 97 : 88 p. [c]

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MUENSCHER Walter Conrad 1936 - Weeds. Macmillan Company, New York, 577 p. (ed.2 = 1955)

I) weeds and their control : 1

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2) weeds of special habitats (lawns and turfs, pastures, hay fields and meadow, cultivated fields and gardens, grain fields, cranberry bogs, rice) 40

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MASSEY A.B. 1941 - Farm weeds : their importance and control. Bulletin of the Virginia polytechnic institute, 120 p.

[http://babel.hathitrust.org/cgi/pt?id=uc1.\\$b695880;seq=7;view=1up;num=5](http://babel.hathitrust.org/cgi/pt?id=uc1.$b695880;seq=7;view=1up;num=5)

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W as indicators of soil conditions p35 (poorly drained, thin, dry, sandy...)

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List of illustrations p120]

ROBBINS W.W., CRAFTS A.S., RAYNOR R.N., 1942 - Weed control, a textbook and manual. McGraw-Hill book company, New York and London, 542 p. [pers] (+ 2e ed. 1952, 1962, 1973)

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BATES G.H. 1948 - Weed control. Farmer, London, 236 p. [pers]

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AHLGREN Gilbert H., KLINGMAN Glenn C., WOLF Dale E., 1951 - Principles of Weed Control. J. Wiley, New York..., 368 p. [pers]

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2)principles on control and eradication 15 (prevention, dissemination, methods of c : mechanical, crop rotations, biological, chemical)

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ROBBINS W.W., CRAFTS A.S., 1952 - Weed control, a textbook and manual. 2e ed., 503 p.

THAKUR C., 1954 - Weeds. Motilal Banarsidass, 125 p. (+ ed. 1977 ...)

MUENCHER W.C., 1955 - Weeds. Macmillan Company, New York. 2ème éd. 560 p. (1ère ed 1935)

[I] **weeds and their control** : 1

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British Weed Control Council 1958 – Weed control handbook. Oxford, 245 p.

WOODFORD E.K., EVANS S.A. 1960 - Weed control handbook. Oxford, 264 p. ed.2 (ed.1 = 1958) [pers.]

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HARPER J.L. & al., 1961 - The biology of weeds. Blackwell, Oxford, 256 p.

[1) **introduction** ;

2) **Godwin. history of weeds in Britain** ;

3) **Bunting. reflexions on the ecology of weed** ;

4) **Lieth. patterns of change within grassland communities** ;

Problems in the taxonomy and evolution of weeds :

5) **Warburg. taxonomic problems** ;

6) **Styles. taxonomy of the british knotgrasses** ;

7) **Pettet. problems in Viola tricolor and its allies** ;

8) **Pritchard. races formation... with... Euphorbia cyparissias and Hypericum perforatum** ;

The dormancy and dispersal of seeds :

9) **Thurston. dormancy** ;

10) **Sunderland. germination of ... root parasites** ;

11) **Wellington. assessment and control of the dissemination by crop** ;

12) **Hitchings. control and eradication in seed crops** ;

Population studies, interference and competition :

13) **Harper. Factors controlling plant numbers**

14) **Bleasdale. Plant competition**

15) **mutual influences of weeds and crops**

16) **Grummer & Beyer. Influence exerted by species of Camelina on flax by means of toxic substances**

17) **Welbank. Toxin production from Agropyron repens**

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- 18) Ivens. Species of Acacia as weeds
- 19) Little. Ecology of some New Zealand woody weeds
- 20) Gay. Water hyacinth and the Sudan
- 21) Weeraratna. Ecology and biology of parasitism of the Loranthaceae of Ceylon
- Autoecological studies on weed species :
- 22) Comparative life history study of *Cirsium arvense* and *Tussilago farfara*
- 23) Lazenby. Adaptability in *Allium vineale*
- 24) Sagar & Harper. Factors affecting the germination and early establishment of plantains (*Plantago lanceolata*, *media major*)
- 25) Chadwick. *Nardus stricta* a weed of hill grazings]

KLINGMAN Glenn C., **1961** - Weed control as a science. Wiley, New York, London, 421 p. (1982 2e ed.+ 1975 ... ; Ahlgren & al 1951)

[1] introduction : **damage, cost, control...** ;

2) dissemination ;

3) plant physiology and herbicides ; 4) soil and herbicides ; 5) surface active agents ; 6) formulations ; 7) application equipment ; 8) carboxylic-aromatic compounds ; 9) aliphatic ; 10) substituted phenols ; heterocyclic nitrogen ; 12) aliphatic ; 13) metal-organic and inorganic ; 14) other organic herbicides ;

15)field crops grown in rows ;

16)small grains and flax ;

17)small-seeded legumes ;

18)vegetable crops ;

19)fruit crops ;

20)pastures and range ;

21)brush and undesirable trees ;

22)aquatic control ;

23)soil sterilants ;

24)lawn, turf and other ornamentals]

SALISBURY S.E., **1961** - Weeds and aliens. Collins. London, 384 p. (ed.2 = 1964)

[1]nature of weeds

2)weed flora of the past and diminishing species

3)species that have spread or are spreading

4)geographical elements

5)how weeds and aliens are dispersed

6)cornfield and arable land ;

7)grassland ;

8)sandy soils ;

9)chalk ;

10)roadsides and wastes ;

11)garden

12)garden plants as weeds

13)seasonal relations and germination behaviour

14)dormancy and longevity of buried seeds

15)vegetative multiplication

16)herbicides]

CRAFTS A.S., **ROBBINS** W.W., **1962** - Weed control, a textbook and manual. McGraw-Hill book company, New York, 3e ed., 660 p. (1e ed. 1942)

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EVANS Stanley A., 1962 - Weed destruction, a farmers' and students' guide. Blackwell

Scientific Publications, Oxford, 172 p. [IGEPP Rheu]

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2) methods of weed control ;

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4) chemical retention in soil ;

5) herbicides and the soil ; 6) herbicides ; 7) formulations and surfactants ; 8) sprayer ;

9) plants : broadleaves and grass ;

10) soil root relationships ;

11) plant growth substances ;

12) sites of herbicide uptake by plants ; 13) fate of herbicides in plants ; 14) mode of action of herbicides ; 15) herbicide selectivity ;

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3) McNeill. Problems of weed taxonomy
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5) Hilbig. Preservation of agrestal weeds
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- 7) Oka & Morishima. Ecological genetics and the evolution of weeds
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- 11) Hakansson. **Multiplication, growth and persistence of perennial weeds**
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- 13) Glauning & Holzner. **Interference between weeds and crops : a review of literature**
- 14) Sagar. **Introduction to the population dynamics**
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- 19) Holzner & Immonem. Europe, an overview 20) Guillerm & Maillet. Western mediterranean countries of Europe 21) Franzini. Italy 22) Holzner. Iran 23) Hubl & Holzner. India 24) Hilbig. Mongolia 25) Ul'yanova. Kamchatka 26) Kasahara. Japan 27) Rahman. New Zealand 28) Alex. Canada 29) Hashimoto. Brazil 30) Wells & Stirton. South Africa 31) Popay & Ivens. East Africa
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2) Principles and patterns

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4) Plant growth and interference

5) Limiting factors and physiological responses to competition

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2) **Aims and methods of weed control**
3) **Impact of weeds on agriculture**

- 4) Individual fields : an introductory analysis
- 5) Individual fields : long term consideration and other factors
- 6) Farm system
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- 8) **Weed control in a social context].**

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2)Ecology of w

3)Reproduction and dissemination of w

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4. Conservation Tillage Systems.

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45. Turfgrass

46. Pastures and Rangelands (Poisonous Plants...)]

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1) Characteristics, **biology** and importance of weeds ;

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A) Weed identification guides ;

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Managing invasive plants in natural areas : Moving beyond **W control**

W competitiveness of **aerobic rice genotypes** : Opportunities for ecologically-based integrated rice cropping systems

Developing W control methods for **Camelina**, A newly introduced, high-value oil seed crop

Contribution of arable W to biodiversity

Biophotons as a novel indicator of **herbicidal selectivity** in plants

w control in maize (*Zea mays* L.) with **atrazine** and its soil residual activity on the growth and yield of amaranth

Lessons from W

Evaluation of **glyphosate-based paraquat** mixtures for W control in **oil palm** (*Elaeis guineensis*) in Southwestern Nigeria

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[1]W AND OUR CONCERN (defined, menace, uses)

2)W-CROP COMPETITION

3)PROPAGATION AND DISPERSAL OF W (seeds, vegetative)

4)W HARDINESS AND PERSISTENCE (invasion, seed production, longevity of seeds, vegetative propagation, dispersal, C4 physiology)

5)CLASSIFICATION OF W AND THEIR DISTRIBUTION (**annual, biennial, and perennial** ; Grasses, Sedges, and Broadleaf ; woody and Herbaceous ; parasitic ; crop-Associated ; alien and invasive alien ; noxious ; aquatic ; industrial w ; grassland ; distribution , extent of dispersal, climatic, soil moisture, soil type, agronomic practices , w succession)

6)ELEMENTS OF PREVENTION AND CONTROL (prevention ; control ; eradication ; integrated W management)

7)CULTURAL AND PHYSICAL METHODS OF WEED CONTROL (cultural , good crop husbandry practices, soil solarisation, mulching, intercropping ; physical control)

8. BIOLOGICAL CONTROL (biological, bioherbicide)

9. W CONTROL THROUGH HERBICIDES (advantages and Limitations ; scope in agriculture ; classes of herbicides, selective and non-selective, contact and translocated, soil and shoot-active, residual and non-residual ; absorption and translocation ; types of application ; formulations ; adjuvants ; herbicide rotations and combinations ; resistance in W ; application equipment ; factors influencing efficacy ; safety in the use ; residues)

10)HERBI. SELECTIVITY (modes ; differences in morphology ; deactivation Mechanisms in plants ; differential intake ; agronomic manipulations ; adsorbents and chemical safeners ; breeding crops for resistance)

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15)NOXIOUS FARM W AND THEIR CONTROL (*Cyperus rotundus* ; *Cynodon dactylon* ; *Sorghum halepense* ; *Saccharum spontaneum* ; *Pluchea lanceolata* ; *Alhagi pseudalhagi* ; *Parthenium hysterophorus* ; *Striga* spp ; *Orobanche* spp ; *Cuscuta* spp ; *Solarium elaeagnifolium* ; *Avena fatua* ; *Chromolaena odorata* ; *Lantana camara* ; *Mikania micrantha* ; *Mimosa* spp ; *Phalaris minor*)

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18)Appendix (common farm w in India ; formulae to evaluate control effects ; conversion factors ; symbols given on the herbicides labels ; description of treatment effects on W and crop in the visual scoring ; firms ; Herbicide formulations ; some reference books on W science ; common journals on W sciences)

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[1)W MENACE (defined ; in agriculture, crop yields and quality; in animal husbandry; to human health; to aquatic ecosystems; to industry and public utilities; to forests and pastures; creativity with w; misutilization of w)

2)W-CROP COMPETITION (for nutrients, moisture, light, allelopathy ; critical period of W-crop competition ; and crop density and spatial uniformity ; plant species effects; soil and climatic influences ; cropping practices effects)

3)PROPAGATION, DISPERSAL, AND PERSISTENCE

4)CLASSIFICATION AND DISTRIBUTION (classification according to ontogeny, cotyledon character, nature of the stem, associations, habitat, origin of W, soils, plant community, noxious and objectionable, distribution of W flora)

5)PREVENTION (elements, weedfree crop seeds, avoid contamination of manure pits, movement of with other farm resources, keep non-crop areas clean, keep vigilance, invoke legal measures)

6)ELEMENTS OF CONTROL (control, eradication, and management ; methods of control (good crop, husbandry, physical, herbicidal, biological, allelo-chemical, crop breeding, non-living mulches, burning and, flaming, soil solarisation) ; general considerations in W Management

7)W SUPPRESSION THROUGH GOOD CROP HUSBANDRY

-proper crop stand and early seedling vigour

-selective crop stimulation

- proper planting method
- proper planting time
- crop rotation
- stale seedbed
- smother cropping
- summer fallowing
- minimum tillage
- lowering area under bunds
- flooding and drainage

8) PHYSICAL CONTROL

Historical

Pre-plant tillage control

Post-plant tillage control

Physical control of perennial : Deep rooted perennial, Shallow-rooted perennial

Mowing, cutting, churning, and dredging

9) BIOLOGICAL CONTROL

-Classical biological control philosophy : Criteria of a successful bioagent, Kinds of classical bioagents, Outstanding examples of classical

-Bioherbicide philosophy

-Biological versus other methods

10. DIVERSITY OF HERBICIDES, THEIR APPLICATION, AND USE PRECAUTIONS

Historical ; Procedure outline and costs of inventing new ; Objectives and scope of usage ; Economics use in agriculture ; Classes : Selective and Non-Selective, Narrow spectrum and Wide Spectrum Herbicides, Soil-active and foliage-active, Contact and translocated, Residual and non-residual, Soil sterilants and fumigants

Methods of application : Soil application, Foliage, Treating brush and trees, other methods ;

Types of treatments ; Formulations (=Concentrates) ; Rate of application ; Carrier (=Diluent) ; Spray volume ; Herbicide rotations and combinations ; Herbicide compatibility ; Ideal herbicide ; Herbicide hazards ; Precautions in storage and handling

11) HERBICIDE APPLICATION EQUIPMENT AND ITS CALIBRATION

major components of sprayers ; Kinds of sprayers ; Calibration of boom sprayers ; Maintenance of sprayers ; Granule applicators ; Incorporation equipment ; Research plot sprayers

12) IMPORTANT HERBICIDE FAMILIES AND MOLECULES

Substituted Phenols, Phenoxyalkanoic, Phenylalkanoic, Substituted Aromatic, Phthalic and Phthalamic, Chlorinated Aliphatic, Symmetrical and asymmetrical Triazines, Substituted Azoles, Substituted Diazines, Pyridines and Pyridinols, Quaternary Ammoniums, Uraclis, Substituted Ureas, Carbamates and Carbamothioates, Substituted Amides and Anilides, Benzonitriles, Anilines and Toluidines, Ethers, Imidazolinones, Sulfonylureas, Organic Arsenicals, Aryloxyphenoxypropanoic Acids (-fop herbicides), Cyclohexanediones (-dim herbicides), Some miscellaneous approved herbicides, Structures of certain current molecules in India

13) FUNCTIONAL FEATURES OF COMMON HERBICIDES

14) HERBICIDE AVAILABILITY AT THE ACTION SITES IN PLANTS : Absorption, Movement, Translocation phloem + xylem, common types of translocated

15) MODES OF ACTION OF HERBICIDES IN PLANTS

Symmetrical Triazines..... ; Some other Herbicides ; Laser Herbicides

16) HERBICIDE SELECTIVITY AMONGST PLANTS

Differential absorption : Morphology of plants, Growth habits ; Differential translocation ; Differential rates of deactivation by plants ; Differential protoplasmic resistance ; Multifactor selectivity in plants ; Induction of selectivity : Adsorbents and safeners, Granular, Breeding crops for herbicide resistance ; General considerations

17) HERBICIDE RESISTANCE IN W

tolerance versus resistance ; Cross-resistance versus multiple resistance ; resistance and our concerns ; Mechanisms of resistance ; Reining the occurrence of herbicide resistant W biotypes

18) ADJUVANTS

Surfactants (= Surface active agents) ; Emulsifying agents ; Dispersants ; Coupling agents (=Solvents and co-solvents) ; Humicants (=hygroscopic agents) ; Deposit builders (=Stickers or filming agents) ; Compatibility agents ; Synergists (=Activators) : Phytobland oils, Isoparaffinic oils, Ammonium thiocyanate, Trichlorobenzyl chloride, Nitrogenous fertilizers ; Antagonists ; Drift control agents

19) FATE OF HERBICIDES IN SOILS

Adsorption : mechanism / organic herbicides ; Factors affecting herbicide adsorption, Specific adsorption behaviour of some herbicides... ; Movement ; Plant removal ; Decomposition: Microbial, Chemical, Photodecomposition ; Minimizing herbicide persistence in soils ; effects on soil microorganisms

20) PLANT ENVIRONMENT AND HERBICIDE INTERACTIONS

-Elements of plant environment affecting herbicide performances : temperature and relative humidity, rainfall (and irrigation), wind, light, soil organic matter, soil texture, soil pH

-Other aspects affecting herbicide performance : Fertilizers, Pesticides and pests, Pollutants in air, Impact on the environment, Benefits outweigh hazards

21) W MANAGEMENT PRACTICES IN FIELD CROPS AND VEGETABLES

-Small grain cereals : Rice (*Oryza sativa*), Winter Grains (wheat, barley, and oat)

-Maize and millets

-Oilseed crops : Groundnut (*Arachis hypogaea*), Linseed (*Linum usitatissimum*), Rape and Mustard (*Brassica* spp.), Soybean (*Glycine max*), Sesame (*Sesamum indicum*), Safflower (*Carthamus tinctorius*), Sunflower (*Helianthus annuus*), Castorbean (*Ricinus communis*), Niger (*Guizotta abyssinica*)

-Grain legume Crops : Chickpea or Bengal Gram (*Cicer arietinum*), Beans (*Vigna* and *Vicia* spp.), Pigeonpea

(Cajanus cajan), Pea (Pisum sativum), Lentil (Lens culinaris), Rajmash (Phaseolus vulgaris), Dolichus beans (Dolichus lablab), Cowpea (Vigna unguiculata), Clusterbean (Cyamopsis tetragonoloba)
 -Sugar crops : Sugarcane (Saccharum officinarum), Sugarbeet (Beta vulgaris L.)
 -Fibre crops : Cotton (Gossypium spp.), Jute (Chorcorus spp.)
 -Stimulant crops, seed spices, condiments and medicinal Plants : Tobacco (Nicotiana spp.), Opium Poppy (Papaver somniferum), Cumin (Cuminum cyminum), Fenugreek (Trigonella foenum-graceum), Coriander (Coriandrum sativum), Cardamom (Elettaria cardamomum), Isabgol or Spogel Seeds (Blonde psillium), Java Citronella (Cymbopogon winterianus), Coleus (Coleus amboinicus), Asgand (Withania somnifera)
 -Forage Crops : Lucerne (Medicago sativa L.) and Berseem (Trifolium alexandrinum L.), Shaftal (T. resupinatum), Sorghum and Maize (fodder crops)

- Inter-cropping systems

-Vegetable crops

22)W CONTROL IN ORCHARDS, PLANTATIONS, GRASSLANDS, AND LAWNS

Orchards : problem, management practices

Plantation crops : problem, management practices

Grasslands : problem, management practices, Renovation of grasslands

Lawns (and turfs) : problem, management practices

23)NON-SELECTIVE CONTROL OF WEEDY VEGETATION

Non-crop lands (Herbicides, Brush w management, Soil sterilants) ; Crop lands (Herbicides)

24)SPECIFIC PROBLEM W AND THEIR CONTROL

-Grasses (Cynodon dactylon, Imperata cylindrica, Sorghum halepense, Saccharum spontaneum, Avena spp, Phalaris minor)

-Parasitic Weeds (Striga, Orobanchae, Cuscuta, Dendrophthoe falcata, Helicanthus elastica)

-Broadleaf Weeds (Convolvulus arvensis, Cirsium arvense, Alhagi pseudalhagi, Pluchea lanceolata, Opuntia dillenii, Lantana camara, Carthamus oxyacantha, Tribulus terrestris, Eupatorium odoratum, Ageratum spp, Parthenium hysterophorus, Mikania micrantha, Mimosa spp, Solarium elaeagnifolium)

-Cyperus spp

25)HERBICIDE RESIDUES IN FOOD AND WATER

Pesticide residues and our concern ; Sources of residues in agricultural commodities and foodstuffs ; Status of residues in food : Food grains, Vegetables and fruits, Forages, Honey, Fish, others ; Status of residues in water ; Minimizing residues

26)IMPACT OF HERBICIDES ON AGRICULTURAL TECHNOLOGY

Seedbed Preparation : Advantages + limitations of no-till farming ; Chemical fallowing ; Direct seeding of crops ; Hill-planting of crops ; Seeding rates and row-spacings ; Irrigation ; Choice of crop and varieties ; Insect pest and plant pathogens ; Farm equipment ; Farm management ; Crop quality

27)FIELD RESEARCH WITH HERBICIDES- A MATERIALS AND METHODS OUTLINE

Equipment for a W science laboratory ; Procedure for field evaluation ; Experiment layout and application ; Reporting results ; Calculating economics of the treatments ; Choosing recommendations from field experiments

28.)APPENDICES

-Common tropical and subtropical terrestrial W

...

-Some other books on W science

-Selected Journals, periodicals, handbooks, and monographs

-Important W science societies in certain countries

29)GLOSSARY

30)SUBJECT INDEX]

SUBRAMANIAN S., MOHAMED ALI A., JAYA KUMAR R., MUTHUKRISHNAN P., VALLAL KANNAN S., CHANDRASEKARAN B. 2011 - All about weed control. Kalyani Publishers, Ludhiana, ed.2 (second revised & enlarged edition), 321 p. (ed.1 = 1991) [pers]

[preface ed.2 2p

preface ed.1 2p

foreword ed.1 2p

contents 3p

1)What are w 1 (reduction crop yield, menace animal husbandry, reduction in land value, loss of quality of crop produce...)

2)How w spread 8 (reproduction, dissemination, persistence of infestation, dormancy...)

3)How w classified 16 (annuals..., habitat, indigenous/introduced, poisonous, parasitic, aquatic

4)What is w survey 74 (methodology)

5)Can w be beneficial 87

6)Can w compete with crops 90

7)What is allelopathy 97

8)How to control w 101 (prevention, eradication, control, management..., mechanical, flame, cultural, biological, chemical)

9)How herbicides classified 115

10)How herbicides are absorbed and get translocated in plants 141

11)How do herbicides act 145

12)What happens to herbicides in plants 147

13)What is the fate of herbicides in soils 150

14)Herbicides vs micro-organisms	155
15)How do herbicides interact with pesticides	161
16)Sublethal effects of herbicides on crop plants	165
17)How and when to apply herbicides	169
18)Understand integrated w management	189 (concept, rice, sorghum, maize, millet, wheat, cotton, sugarcane, groundnut, sunflower, pulses, blackgram, greengram, soybean, vegetables, onion, tobacco, plantation crops, tea, coffee)
19)How to control problem w	210 (perennial grasses : Cynodon d, Imperata c, Paspalum c, Sorghum h ; broad leaved : Parthenium h, Solanum eleagnifolium, Oxalis spp ; sedges Cyperus rotundus ; parasitic : Orobanche spp, Striga spp, Cuscuta spp, Loranthus spp ; trees and brush)
20)How to control aquatic w	223
21)How to manage w in dry lands	231
22)What is new in the w management system	237
23)How to do w research	250
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references	295
w index	301
subject index	307-321.]

SINGH 2012 - A practical manual of weed management. Lambert, 284 p.

ZIMDAHL Robert L., 2012 - Weed science : a plea for thought - Revisited. Springer, 73 p.

<http://www.amazon.fr/Weed-Science-Revisited-Springer-Agriculture/dp/9400720874/ref=sr_1_201?s=english-books&ie=UTF8&qid=1355692293&sr=1-201#reader_9400720874>

1)need for historical perspective	1
2)Pesticides and value questions	25
3)pesticide paradigm	31
4)a question of faith	43
5)future	65
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Hatcher Paul E., Froud-Williams Robert J., 2017 - Weed Research: Expanding Horizons.

Wiley, 456 p. <<https://books.google.fr/books?hl=fr&lr=&id=PE0nDwAAQBAJ&oi=fnd&pg=PR3&dq=Paul+E.+Hatcher,+Robert+J.+Froud-Williams,+2017+-+Weed+Research:+Expanding+Horizons.+Wiley&ots=OblmzcfOfg&sig=4JXeksimxjq58rz13lDNc8Bnelc#v=onepage&q=Paul%20E.%20Hatcher%2C%20Robert%20J.%20Froud-Williams%2C%202017%20-%20Weed%20Research%3A%20Expanding%20Horizons.%20Wiley&f=false>>

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1)W science research : past, present and future perspectives. FROUD WILLIAMS 1 (factors : clean seed, rotation, fallow, cultivation, soil... ; changing floras...)	
2)Descriptive and mechanistic models of crop-W competition BAASTIAANS & al. 33 (descriptive models / yield loss, mechanistic models / competition)	
3)Approaches and objectives of arable w species mappings. KRANMER & al. 61 (why, who, how)	
4)Seed biology and population dynamics. TORRESEN & al. 88 (production, dispersal, bank, dormancy, predicting emergence, population dynamics)	
5)w and biodiversity. GEROWITT & al. 115 (functionnal, genetic, rare sp, food chains, diversity)	
6)Optimising herbicide performance. KUDSK. 149 (how to study it, biotic vactors, abiotic, application technique, adjuvants, mixtures)	
7)Herbicide resistance in w. MOSS. 181 (historical, mode of action, mechanisms, evolution, risk, prevention, psychology)	
8)w biological control. SHAW & al. 215 (in European extensive, in intensive, non native W, combining techniques, legislation)	
9)Non chemical w management. MELANDER & al. 245 (preventive, objectives, cover crops and mulches, mechanical, thermal)	
10)Invasive plants. BOHREN. 271 (why, human intervention, facts invasions, what has been done, role of EWRS, EPPO, Neobiota, control strategies)	
11)Parasitic w. VURRO. 313 (classification, life cycle, distribution Europ, management strategies, control)	
12)w management systems in vegetables. TEI & al. 355 (flora, IWM, physical control, mechanical, biological, chemical)	
13)Perennial w. HATCHER. 389 (perennating structures, grassland, organic arable, southern european, bracken)	
Index. 413-432]	

JABRAN Khawar, CHAUHAN Bhagirah S., 2018 - Non chemical weed control. Academic Press, India. 161 p. <https://books.google.fr/books?id=mywsDwAAQBAJ&pg=PA6&lpq=PA6&dq=jabran+non+chemical+weed+control&source=bl&ots=YoiS08BKNK&sig=RI_YDAOKk-bGE7xJAD04laUm4IA&hl=fr&sa=X&ved=0ahUKEwji-NX5lb_ZAhVIK8AKHTZICKQQ6AEIVTAH#v=onepage&q=jabran%20non%20chemical%20weed%20control&f=false>

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- 1) Overview and significance of non-chemical weed control. JABRAN K. & al. 1-8
 - 2) Thermal weed control : history, mechanisms, and impacts. PEERZADA A.M. & al. 9-32
 - 3) The use of physics in weed control. BRODIE G. 33-60
 - 4) Weed control using ground cover systems. JABRAN K. & al. 61-72
 - 5) Weed control through crop plant manipulations. LOWRY C.J. & al. 73-96
 - 6) Agronomic weed control : a trustworthy approach for sustainable weed management. KORRES N.E. 97-115
 - 7) Biological weed control. ULUDAG A. & al. 115-132
 - 8) Mechanical weed control. HUSSAIN M. & al. 133-156
- Index 157-161]

sur les conseils de JLBernard : Jethro TULL, 1740 - Horsehoeing husbandry

Annex : Numbers of chapters for groups of control approach in 51 handbooks of weed control.

Annexe : Effectifs de chapitres par groupes d'approches de lutte dans 51 traités de désherbage.

year	authors	title	p.	general	cultural	mechanic	chemic.	biologic.	therm.	other	by crops	nb. weeds
année	auteurs	titre	p.	général	cultur.	mécaniq.	chimiq.	biologiq.	therm.	autres	par habita	nb. m.h.
chrono.noms	nb mots-clés										ZA ZNA	ZA aqu.
1893	Show	1 W...Er...	210	2	p	.	.	.	.	p	.	20
1908	Bolley	1 W...Er	67	p	p	p	1	.	.	p	.	7
1909	Adams	1 W...Er...C...	12	1	p	p	3	.	.	.	.	.
1910	Long, Percival	2 W	451	1	p	p	p	.	.	p	1 3	c.100 c40
1911	Pammel	1 W...	292	1	p	p	p	p	.	.	4 3	c256
1914	Georgia	1 W...C	593	1	p	p	1	.	.	p	.	c.400
1920	Brenchley	1 W...	239	1	p	p	p	.	.	.	8	.
1936	Ball & al. ed.2	4 WC	88	3	p	p	1	.	.	p	5 4	11
1936	Muenscher ed.1	1 W	577	1	p	p	1	p	p	p	7	500
1941	Massey	1 W...C	120	2	p	p	1	.	1	.	7	85
1942	Robbins & al. ed.1	3 WC...	542	2	1	1	14	1	p	1	6 6	21
1948	Bates	1 WC...	248	1	p	1	2	.	.	.	3 6	10
1951	Ahlgren & al.	3 ...WC	368	1	p	p	5	p	p	.	c22 4	15
1955	Muenscher ed.2	1 W	560	1	p	p	p	p	p	p	7	571
1960	Woodford,Evans ed.2	9 WC	264	.	1	.	6	.	.	1	h8 h5	.
1962	Craft, Robbins ed.3	2 WC...	660	1	1	1	15	1	.	p	h70 6	.
1962	Evans	1 WDest...	172	.	1	p	3	.	.	p	15	53
1966	King	1 W...C	526	1	p	p	3	p	p	p	.	.
1968	Day & al.	9 WC	471	2	1	1	7	1	.	p	6 4	.
1970	Muzik	1 W...C	273	.	p	p	7	1	p	p	9 3	10
1975	Craft	1 ...WC	440	2	1	.	4	1	.	.	h70 3	.
1977	Fryer, Matsunaka	13 ICW	262	1	.	.	1	1	.	1	10 1	.
1982	F.A.O.	27 WM	186	1	2	1	2	2	.	.	3	.
1982	Klingman,Ashton ed.2	2 WS...	449	1	p	p	18	p	p	p	30 5	.
1982	Stephens	1 WC	215	p	p	p	3	p	p	p	13 3	.
1983	Anderson ed.2	1 WS...	655	1	p	p	8	p	.	.	.	.
1985	Gwynne, Murray	2 W...C	258	1	.	p	3	.	.	.	11 6	11
1985	Ross, Lembi ed.1	2 ...WS	340	2	p	1	5	p	.	.	4	7
1986	F.A.O.	2? ...WM	149	4	1	1	1	p	p	p	.	.
1988	Altieri & al.	19 WM...	354	5	1	p	p	2	.	p	1	.
1993	Zimdahl ed.1	1 WS	450	2	p	p	8	1	p	p	.	.
1994	Labrada & al.(FAO)	35 WM...	384	1	1	.	1	1	p	p	15 1	18 2
1995	Smith & al.	27 ...WM...	741	1	p	1	4	1	.	p	5 2	.
1997	Aldrich, Kremer ed.2	2 ...WM	455	2	p	p	4	1	.	p	.	.
1997	Radosevich & al.	3 W...M	589	3	p	p	2	p	p	p	.	.
1999	Buhler & al.	25 ...WM	289	3	1	1	.	1	.	1	1	.
2000	Rao ed.2	1 WS	557	1	p	p	10	1	.	p	13 3	40 8
2001	Joshi ed.3	1 ...WC	538	1	p	p	5	p	.	p	h41 1	22 c.5
2002	Monaco & al. ed.4	3 WS...	671	1	p	p	17	p	p	p	c30 4	.
2002	Naylor & al. ed.9	21 WM...	423	3	p	p	8	1	p	1	20 1	.
2003	Hakansson	1 WM...	274	p	p	1	1	p	p	1	2	6
2003	Saraswat & al.	25 WM	327	p	1	1	3	1	p	p	35 3	10 1
2004	Inderjit & al.	49 WM	553	5	p	p	4	1	p	2	3 1	3
2006	Rammoorthy, Subbian	2 WM	560	1	.	1	8	1	.	.	1	21+p73
2006	Singh, Batish	28...SustWM	892	2	7	1	4	3	.	1	1 1	7
2007	Gupta	1 ...WS	379	1	1	p	4	1	p	p	h.17	17 11
2007	Upadhyaya, Blackshaw	33 ncWM...	240	1	2	1	.	2	2	2	.	.
2009	Pawar	1 WM	300	3	1	1	1	1	p	p	.	.
2010	Walia ed.3	1 WM	373	1	p	p	8	1	p	p	11 2	59
2011	Chaudhary & al.	4 WM...	207	2	p	p	3	p	.	p	12	14
2011	Subramanian & al. ed.2	6 ...WC	321	4	p	p	9	p	p	p	16 1	13
presence of 'chapter'				44	16	15	43	23	2	9	39	28
nb of 'p'				4	32	31	5	16	20	28		
total of chapters				78	24	15	219	28	3	11		
key-words of title												
C control												
Dest. destruction												
Er eradication												
Ex (extermination)												
I integrated												
M management												
Sust. sustainable												
nc non chemical												
S science												
W weed(-s)												
_other abbreviations												
c circa = environ												
h herbicide												
m.h. weeds												
p pro parte (§ for 1 chapter)												
+p description of taxon but not control												
ZA agricultural zone												
ZNA zone 'not agricultural'												

(summary of each book in Web "dc.plantouz")

2- en allemand :

KORSMO E., 1930 - Unkrauter im Ackerbau der Neuzeit. Biologische und praktische Untersuchungen. J. Springer, Berlin, 580 p.(original en suédois je crois) [208 sp en 13 groupes biologiques, avec description, PMG, dessin de plante, graine] [excellent ouvrage]

1. Einteilung nach Wachstumsbereich 1
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 - a) Winterannuelle 155
 - b) 1- bis 2-jährige einschliesslich des Schmarotzer
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 - 2) Halbschmarotzer [hémiparasites] 209
 - 3) Schmarotzer [parasites] 213
 - c) bisannuelles 218
 - B) Mehrjährige bodenständige [pérennes stationnaires] 249**
 - I) Faserwurzel [fasciculées]
 - II) Wurzelstock
 - III) Pfahlwurzel [pivotante]
 - a) Brutknospen in der Wurzelrindenschicht
 - b) Vertiefungen in der Wurzelrindenschicht
 - c) äusseren Zellschicht (Perizykel) des Zentralzylinders
 - C) Mehrjährige, ausdauernde mit anhaltender vegetativer Vermehrung und Verbreitung [pérennes à propagation végétative] 326**
 - I) liegende, kriechende, wurzelschlagende Sengel [aérienne]
 - II) unterirdische Knollen [souterraines tubérisées]
 - III) nährwurzelartige Ausläufer der Pfahlwurzel [souterraine]
 - IV) Ausläufer [traçantes, rhizomes]
 - a) Faserwurzelbündel ; Mutterspross mit Faserwurzel
 - b) Pfahlwurzeln oder Faserwurzelbündel
 - V) Gefässkryptogamen
 - VI) Wurzelausläufer [Rt]
 - VII) Wurzelwandernde mit tiefgreifenden Pfahlwurzeln [Rt] 430
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 7. norwegischer Versuchsergebnisse 545
 8. Schlussbemerkungen

3- en français :

DE CANDOLLE Aug.Pyr., 1832 - Des mauvaises herbes. In Physiologie végétale ou exposition des forces et des fonctions vitales des végétaux pour servir de suite à l'organographie végétale, et d'introduction à la botanique géographique et agricole. Bechet Jeune, Paris tome 3 : 1476-1485
[définition ; types de nuisibilité ; lutte mécanique...]

GASPARIN Compte de, **1843-1851 - Lois des assolements.** In Cours d'agriculture. tome 5 : 1-149 [Bibliothèque Municipale de Rennes]
[lois dérivant de la nécessité de nettoyer le sol : 62-67]

MENAUT E., ROUSSEAU H., 1902 - Les plantes nuisibles en agriculture et en horticulture et les moyens de les détruire. Doin, Paris, 315 p.
I) Généralités : plantes nuisibles, vénéneuses, parasites ;
II) atlas (80 sp.), description et classification des plantes nuisibles (suivant l'époque de leur floraison et les lieux où elles poussent spontanément) ;
III) destruction : céréales ; herbages ; parasites]

RABATE E., 1927 - La destruction des mauvaises herbes. Ed. Académie de l'Agriculture, Paris, 164 p.

[I]généralités sur les mauvaises herbes (dégats, biologie) ;

II) Procédés de lutte, moyens préventifs : succession des cultures, travail du sol nu, jachère, déchaumage, fumiers, semences, récolte ;

III) moyens mécaniques, mesures administratives : hersages, balayage, binages, sarclages, échardonnage... ;

IV-VIII) les poisons des plantes (herbicides) ;

XIII) mauvaises herbes des champs de céréales : chiendents, chardons, vescerons, nielle, mélampyre, ivraie, vulpin... ;

XIV) les mh des prairies artificielles ;

XV) mh des prairies naturelles ;

XVI) la folle avoine]

Helgeson Earl A., **F.A.O., 1958** - Méthodes de désherbage. Organisation des Nations Unies pour l'alimentation et l'agriculture, Rome, 208 p.

[principes du désherbage ; méthodes culturales et mécaniques de désherbage ;

méthodes chimiques ; désherbants ; matériels de désherbage (chimique) ;

destruction des plantes adventices aquatiques ; lutte contre les ligneuses ; pâturages et gazons ; désherbage dans les cultures (céréales...) ; en horticulture ; ex. de lutte contre certaines sp. ...]

JUSSIAUX P., PEQUIGNOT R., 1962 - Mauvaises herbes, techniques modernes de lutte. La Maison Rustique, Paris, 222 p.

F.A.O., 1988 - Lutte raisonnée contre les mauvaises herbes, méthodes améliorées. FAO/IWSS, 277 p.

TISSUT M., SEVERIN F., 1984 - Plantes, herbicides et désherbage. A.C.T.A., Paris, 251 p.
(2è éd. 2006 : 600p.)

[I) la vie de la cellule végétale ;

II) la vie des organismes végétaux ;

III) les plantes et les herbicides ;

IV) les herbicides dans leur réalité technique et pratique]

F.A.O., 1988 - La lutte raisonnée contre les mauvaises herbes. Organisation des Nations Unies pour l'alimentation et l'agriculture, Rome, 159 p.

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