

Contents

Foreword	9
1. The Nature of Plants	11
2. Factors Affecting Plant Growth	13
3. Land Use	19
4. Grassland	21
Cultivations	22
Manuring	23
Meadows	25
Pasture and pastures mown at intervals	26
<i>Spring and autumn grazing technique 32;</i>	
<i>Watering 33; Cleansing cut 35</i>	
Grassland weed control	35
Ploughing and reseedling of permanent grassland	38
Hedges and trees in grassland	42
5. Crops and Cropping	44
A look at the history	44
The sidereal system	46
<i>Two and three-field system 47; Crop rotation 47</i>	

6. Cropping Sequence	48
<i>Percentage areas 48; Fertilizer and fodder requirements 49; Soil-improving crops 49</i>	
Economic and labour aspects	50
<i>Weed and pest control by use of cropping sequences 51</i>	
Compatibilities	53
Principles and terminology	55
<i>Terminology 55</i>	
Preceding crop value and effect	56
<i>Cereals and grasses 58; Non-cereals 60</i>	
Catch crops	61
Manuring as part of the sequence	63
Examples of cropping sequences	64
7. Seeds and Sowing Techniques	73
Choice of variety	74
Growing quality seed	75
<i>Sowing times 76; Choice of growing site 77; In-field selection 78; Seed baths 79</i>	
External qualities of seed	81
<i>Size, weight, shape 81; Clean seed 82; Germinating power 82; Water content 83</i>	
Sowing techniques	86
<i>Density 86; Depth 87; Distance between rows 88</i>	
Seed bed preparation and sowing	89
8. Post Drilling Cultivations	91
Available methods	94
<i>Cropping sequences 95; Mechanical measures 98; Thermal control 102</i>	
A practical example from a farm	104
<i>Winter cereals 105; Spring cereals 107</i>	

9. Arable Crops	109
Cereals	109
<i>Wheat 112; Rye 113; Barley 115; Oats 116;</i>	
<i>Smut and seed treatments 117</i>	
Row crops	118
<i>Potatoes 120; Sugar beet 133; Fodder beet,</i>	
<i>mangels and swedes 133; Beetroot 136; Carrots 137;</i>	
<i>White and red cabbage 141</i>	
Legumes	143
<i>Peas 144; Field beans 146; Vetches 147; Lentils 148;</i>	
<i>Lupins 149</i>	
Miscellaneous crops	150
<i>Winter rape 150; Flax 152; Mustard 154;</i>	
<i>Buckwheat 154; Stinging nettle 155</i>	
Fodder crops	157
<i>Annual clovers 162; Perennial clovers 164; Leys 169;</i>	
<i>Non-leguminous fodder crops 179; Catch crops 183</i>	
Growing fodder plants for seed	192
Herbs	197
<i>Cultivation 204; Harvesting and processing 205;</i>	
<i>Growing peppermint 208; Herb fodder 209</i>	
Bibliography	211
Index	213