全国高等农业院校通用英语教材

雅到缩名美疆

COMPREHENSIVE ENGLISH FOR STUDENTS OF AGRICULTURE

COMPREHENSIVE ENGLISH for Students of Agriculture

全国高等农业院校通用英语教材

农科综合英语

第三册

主编: 李鲸石 (北京农业大学)

编者: 申 立 (河南农业大学)

俞保丽 (南京农业大学)

潘润智 (华南农业大学)

科学普及出版社

内容提要

本教材是由农牧渔业部教育司组织编写的, 供全国高等农业院校各专业统一 E用。全套教材分四册, 共52课, 四个学期讲授完毕。第三册凡十二课, 包括课 112篇、会话12篇、语法37节、补充读物21篇、注解184条、 谚语53句、 词的学 120条和练习163个大题。

Comprehensive English for Students of Agriculture 全国高等农业院校通用英语教材 农科综合英语

第三册

主 编 李鲸石 编 者:申 立 俞保丽 潘润镫 责任编辑:阿 朗 封面设计:王庭福

科学普及出版社出版(北京海淀区魏公村白石桥路32号) 新华书店北京发行所发行 各地新华书店经售 北京广播学院印刷厂排版 北京通县长城印刷厂印刷

开本850×1168毫米 1/32印张: 13 字数: 406千字 1985年6月第一版 1985年6月第一次印刷 印数: 1—20,000册 定价: 2.50元 统一书号: 9051·1018 不社书号: 0909

编者说明

本册分十二课,其中包含课文12篇、会话12篇、语法37节、补充读物21篇、注解184条、谚语53条、词的学习20个词、练习163个大题。

本册出现新词约1300个,其中包括编入各课课文中的英汉双解词约500个。三册总词汇量达4500个,其中有课文方面所累 积 的词约1500个。我们要求学生对课文以外各项中所出现的新词亦尽可能多地吸收与掌握,以便为阅读普通书刊及农科专业书刊打下应有的基础。

我们在本册中对补充读物的阅读速度提出了较具体的要求:一般为每分钟50个词。除翻译、重述等项练习外,我们还为各篇补充读物设计了理解练习,希望学生在课外进行自我训练,以逐渐提高阅读能力。

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Lesson 31

Text	Plant Breeding
Conversation	A Subject Interesting to
	Students of Agriculture
Word Study	On (1)
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Text

PLANT BREEDING

Early man obtained all his food by hunting animals and gathering wild fruits and vegetables, Then, about 10,000 years ago, he began to sow seeds and grow his food.

As soon as man started to grow crops he became a plant breeder. He knew nothing about heredity, but by choosing the largest seeds for sowing each year he was able to improve the yields from his crops. Accidental improvements happened now and again when a mutation arose, or when crop plants were fertilized by pollen from different species.

In the 18th century, man began to try artificial methods to improve crops. He started to transfer pollen from one flower to another to combine features of different plants into one plant. Such methods had some success, but it was not until genetics became a science around 1900 that man really began to be able to control plant breeding and work towards a definite goal. Today, thousands of people in many countries are trying to produce food crops with better flavours, bigger yields, more resistance to disease and so on, and much effort also goes into producing larger and prestier flowers for the garden.

Suppose a modern plant breeder wants to produce a new type of apple with a red skin, hard flesh and good keeping qualities. First, he examines the many existing kinds of apple and chooses a number of possible "parents", which have one or more of the qualities he wants for his new apple. The breeder then transfers pollen from the flowers of one chosen variety to the flowers of another. This is just what growers did 200 years ago, but his knowledge of genetics gives the modern plant breeder a much better chance of success. He then collects the seeds produced by his experimental flowers, sows them and tends the new trees carefully until they produce fruit. This may well take 15 years or more, and only then will the breeder know if he has produced anything worthwhile. Plants such as cereals give quicker results, but the procedures are just the same.

Plant breeders also try to produce new varieties by treating seeds with radiation or chemicals. This often alters the genes and chromosomes which control the nature of the plant, by producing mutations. Most of these mutations are

harmful, but a few may result in bigger or better plants. Several varieties of wheat now being commercially grown were originally produced in this way.

Words and Expressions

obtain [əb'tein] vt.

gain / get 获得

breeder ['bri:də] n.

[C] person who breeds animals or plants 饲养动物或 培育植物者; 育种者

accidental [,æksi'dentl] a.

happening by chance 意外的, 偶然的 mutation [mju:'teifən] n.

- [U] [biol.] sudden variation in a plant or animal 〔生物〕(动植物的)突变,变异
- [C] instance of this 变种

arise [ə'raiz] (arose [ə'rəuz], arisen [ə'rizn]) vi.

come into being / appear 出现 / happen 发生fer:ilize ['fə:tilaiz] vt.

start the development of young in (a female creature or plant) by sexual or other means 使…受精 / make fertile 使…肥沃

pollen ['polen] n.

[U] fine powder (usu. yellow) formed on flowers which fertilizes other flowers when carried to them by the wind, insects, men, etc. 花粉

artificial [ˌɑ:ti'fiʃəl] a.

made by the art of man 人工的, 人造的 / not natural 非天然的

transfer [træns'fə:]

vt. move from one place or person to another 转移 vi. move or change from one vehicle to another 转乘 车、船等

combine [kəm'bain] vt. & vi.

(cause to) join together (使)结合

feature ['fi:tsə] n.

[C] characteristic or striking part 特征, 特色 definite ['definit] a.

clear 明白的, 清楚的 / not doubtful or uncertain 明确的

goal [gəul] n.

[C] object aimed at 目标

flavour ['fleivə] n.

[C] distinctive taste 特殊的味道 / special quality or characteristic 风味

resistance [ri'zistəns] n.

[U] (power of) resisting 抵抗(力) effort ['efət] n.

- [U] trying hard / use of strength and energy (to do sth.) 努力
- [C] vigorous attempt 努力

flesh [fless] n.

[U] soft substance between the skin and bones of the animal body 肉 / soft part of fruits or vegetables. 果肉(指水果、蔬菜的可食部分)

quality ['kwoliti] n.

[U & C] (degree of) goodness 质, 质量

[C] anything that distinguishes a person or thing / a characteristic element 特性,特质

examine [ig'zæmin] vt.

look at or study carefully 检查 / test the knowleged of (sb.) 对(某人)进行考试

exist [ig'zist] vi.

be 存在 / live 生存 collect [kə'lekt] vt.

bring together / gather 收集, 采集 / go for and bring back (sb. or sth.) 接回, 取回

well [wel] ad.

fully 充分地/reasonably 合理地/quite possibly 很可能地worthwhile ['wə:θ'wail] a.

being worth the time or trouble spent 值得的 procedure [prə'si:dʒə] n.

[U & C] (the regular) order of doing things 过程;步骤;程序

radiation [ˌreidi'eifən] n.

[U] radiating / the sending out of energy, heat, etc.in rays 辐射

[C] sth. radiated 放射物;射线

alter ['o:ltə] vt. & vi.

change 改变;变化

chromosome ['kraumasaum] n.

[C] [biol.] one of the minute threads in every nucleus in animal or plant cells, carrying genes 〔生物〕 染色体

commercially [kə'mə:[əli] ad.

related to commerce 商业上

originally [ə'ridznəli] ad.

by origin 本来, 原来 / at first 最初

now and again sometimes / occasionally 不时, 时而

combine ... into ... 把…结合为…

and so on and so forth / et cetera (etc.)

造成

等等

result in

have as a result

Notes to the Text

N31.01(T) (every) now and again 不时,时而 上一成语 = (every) now and then 或 every so often 或 (every) once in a while. 如:

I don't think about my old home very much, only now and again. 我并不是非常想念老家,只是偶尔想到。

We dine out now and again. 有时我们在外面吃饭。

N31.02(T) transfer (...) from ... to ... (把...)由...转移到...

The head office has been transferred from Wuhan to Guangzhou. 总办事处已由武汉迁至广州。

At Paris we transferred from the train to a bus. 在 巴黎我们下火车后改乘公共汽车。

注意: transfer 在第一句中及物,在第二句中不及物。

N31.03(T) It was not until ... that ... 一直到 ... 时候 ... 才 ... It was not until you told me that I had some idea of it. 直到你告诉了我以后,我才对此事略有所知。

It was not until he promised to help her that she went away. 直到他答应了帮助她, 她才走开。

又 until 和 till 在很多场合下可互换; 但用于句首或 其前有 not 时, 则常用 until 而不用 till。 如上列和 下列各例便是。

Until her father's death, she had always lived abroad. 在他父亲去世以前,她一直住在国外。

Until you told me, I had heard nothing of what happened. 在你告诉我以前,我对所发生之事毫无所闻。

参阅 N15.13(C)。

N31.04(T) 介词或副词 around 作"大约"解 表示接近某一时间或数字,可用介词或副词 around。 如:

I'll pick you up around ten-thirty. 我将在十点半 左右开车去接你。

China has a population around a billion. 中国有大约十亿人口。

N31.05(T) may we!! do sth. 很可能…; 有理由…

The drought may weil last several months. 干旱很可能要持续几个月。

His appearance has changed so much that you may well not recognize him. 他的模样变化很大, 你很可能认不出他了。

You may well say so. 你尽可以这样说。

N31.06(T) ...only then will the breeder know if he has produced anything worthwhile

本句因为要加强 only then 这一状语,所以把它放在句首,其结果引起主语和述语动词的第一个组 成部分(will)的倒置。

以 only 开始的句子,常有上述倒置现象。如:

Only five of the men did he see. 他只看见了其中的五个人。

Only in Beijing can you buy such books. 只有在北京你才能买到这样的书。

N31.07(T) result in ... 产生,造成,导致

The carelessness in feeding resulted in the death of the calf. 饲养上的疏忽造成了这头小牛的死亡。

Acting before thinking always results in failure. 缺少深思熟虑的行动总会导致失败。

Conversation

A SUBJECT INTERESTING TO STUDENTS OF AGRICULTURE

Scene: Student A of the Department of Agronomy and student B of the Department of Horticulture are talking.

- B: A lot of foreign professors are visiting our university, aren't they? I saw one arrive this morning and I think he was speaking German.
- A: Yes, he's going to give a lecture this afternoon on plant breeding.

There are all sorts of interesting work being done in this field and it's so important. We really do need to develop new disease-resistant, high-yielding strains so that we can always get good harvests.

- B: Yes, I know. I'm studying horticulture so I'm really interested, too. We want to get bigger and better vegetables, fruits and flowers. Is the lecture only for your department or can anyone go along?
- A: Well, I don't know but I'm going to ask my teacher.
 Want to come, too?
- B: Yes, O. K.

Word Study

ON (1)

1. on account of: because of 由于

在一个简单句中, 其主语或述语都有可能是含两个或 两个以上的并列成分。如:

The match was postponed on account of the weather. She cannot come on account of illness.

2. on no account / not on any occount: never / by no means 决不

My name must on no account be mentioned in the news.

On no account will I do such a thing.

Don't give it up on any account.

3 on an average / on (the) average: on a level or standard regarded as usual or ordinary 平均(来说)
On an average rain falls in that district on 182 days in the year.

We teach eight hours a week on average.

- on behalf of / on sb.'s behalf: as the representative of 代表
 He accepted the championship award on behalf of the team.
 I'm speaking on behalf of my colleagues and myself.
 I wrote several letters on his behalf.
- 5. on duty: at one's job 值班
 Two soldiers are on duty guarding the gates.
 She was on night duty then.
- 6. on earth: in the world 在世界上 / ever 究竟, 到底 There is nothing on earth like it.
 I could not understand what on earth she meant.
 How on earth did you find it?
- 7. on end: without stopping / continuously 连续地 She spent hours on end writing and re-writing her essay. It has been raining for three days on end.
- 8. on foot: by walking 徒步, 步行
 Her bicycle brokedown and she had to return home on foot.