



中国飞机播种造林

ZHONGGUOFEIJI
BOZHONGZAOLIN



贵州人民出版社

中国飞机播种造林

中华人民共和国林业部造林经营司

贵州人民出版社

责任编辑 落 明 陈克贤

封面设计 石俊生

中国飞机播种造林

袁宽伦 主编

贵州人民出版社出版发行

(贵阳市延安中路5号)

贵州新华印刷厂印刷 贵州省书店经售

87×1092毫米 16开本 14插页 15印张 330千字

1987年3月第1版 1987年3月第1次印刷

印数 1—9,000

书号: 16115·380 定价: 平装 7.60 元

精装 10.00 元

AFFORESTATION BY AERIAL SEEDING IN CHINA

**DEPARTMENT OF SILVICULTURE
MINISTRY OF FORESTRY
PEOPLE'S REPUBLIC OF CHINA**

GUIZHOU PEOPLE'S PUBLISHING HOUSE

SYNOPSIS

"Afforestation by Aerial Seeding in China" is a book which summarizes the experiences gathered in China in the field of aerial seeding over the past 30 years.

The Introduction of this book mainly elaborates the characteristics, achievements, history and position of aerial seeding in China. In the 11 chapters which follow the sequence of operations of aerial seeding, the first 6 chapters explain how preparation is done prior to sowing, and chapters 7 and 8 deal with the operations of aerial seeding whereas the last 3 chapters cover management and protection after sowing. Chapters 1 to 6 describe the types of areas where aerial seeding is possible and discuss the criteria for selection of areas, species and determination of sowing seasons and seed quantity, with a detailed analysis of the techniques applied in planning and designing in seeding areas. In the ensuing 2 chapters which cover operations, introduction is made to the types of aircrafts, equipment and techniques as well as technical measures for improvement of sowing quality. The final 3 chapters focus on methods for assessment of aerial seeding in terms of survival seedlings in accordance with a prescribed definition of duration and criteria. Explanation is also given about management and protection of established plantations by aerial seeding and about how the activities such as tending thinning are organized.

Substantial in up-to-date information, this book has a wide practicality as an easy source of reference for professionals, forest workers as well as teachers and students in forestry faculties.

主 编 孟宪伦

副主编 罗中康 邢学祥

编 委 (按姓氏笔画排列)

王成璋 余志立 李石刚 林书宁

张贞楠 张景春 张德生 袁介藩

蔡周济 魏 凯

图片摄影 巴托夫 陈长芬 邢学祥 强兴华 严奎阶

李德祥 罗中康 林书宁 孟繁明 梁一民

从心海 徐振武 廖志成

云南省林业厅

河北省林业厅

广西梧州地区飞播造林协作组

河南省林业厅

Editor-in-Chief: Meng Xianlun

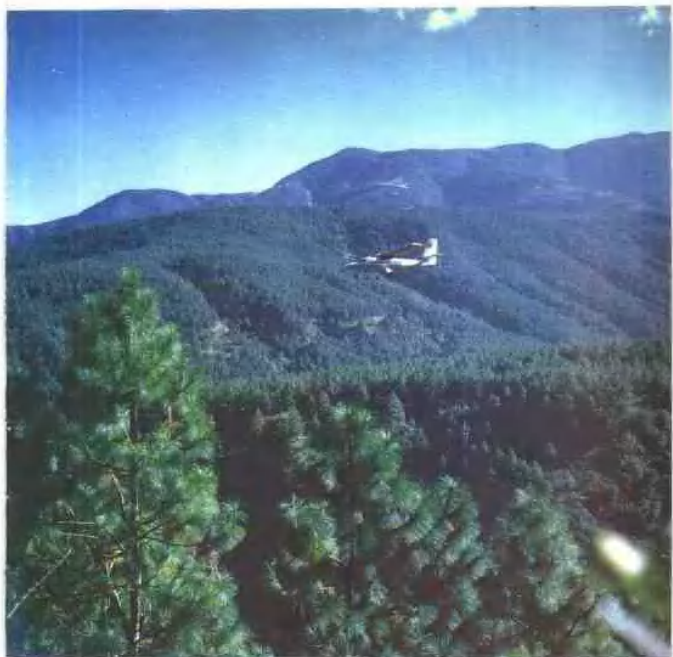
Assistant Editors-in-Chief: Luo Zhongkang, Xing Xuexiang

Contributing Editors: (in the order of the number of strokes in surnames):
Wang Chengzhang, Yu Zhili, Li Shigang, Lin Shuning,
Zhang Zhennan, Zhang Jingchun, Zhang Desheng,
Yuan Jiefan, Cai Zhouji, Wei Kai

Photographs by: Ba Tuofu, Chen Changfen, Xing Xuexiang, Qiang
Xinghua, Yan Kuijie, Li Dexiang, Luo Zhongkang,
Lin Shuning, Meng Fanming, Liang Yimin, Cong
Xinhai, Xu Zhenwu, Liao Zhicheng Forestry Dep-
artment of Yunnan Province, Forestry Department
of Hebei Province, Coordination Commission for
Aerial Seeding of Wuzhou Prefecture of the Guan-
gxi Zhuang Autonomous Region,
Forestry Department of Henan Province

Executive Editors: Luo Ming, Chen Kexian

Cover Design by: Shi Junsheng



一、飞播林景观

1-1 凉山荒山造林，今日林海茫茫（四川凉山州）



2



2. 郁闭度高的马尾松飞播林 (广西林州)
3. 木竹山疏林和飞播林 (广西)



3



5



6



7

二、飞播的树（草）种

4. 喀什米尔巴格马松飞播林（塔什干区）
5. 塔吉克斯坦马松飞播林（戈尔诺-巴达赫尚）
6. 江孜县马松飞播林（江孜县）
7. 塔吉克斯坦马松飞播林（戈尔诺-巴达赫尚）
8. 塔吉克斯坦马松飞播林（戈尔诺-巴达赫尚）
9. 塔吉克斯坦马松飞播林（戈尔诺-巴达赫尚）



4



5



10



11



12



13



14

10. 川南高屏山原始飞瀑林

11. 飞瀑林中秋景

12. 对山最高处内飞瀑的原始森林，竹类森林（四川高屏山）

13. 贵州省黔东南州飞瀑林

14. 飞瀑与原始森林（贵州黔东南）



15. 木荷与马尾松混交林 (广东和平)

16. 飞檐的台湾相思与马尾松混交林 (广东阳江)

17. 马尾松与云南油杉混交林 (贵州雷州军供三棵树)

18. 飞檐的马尾松与杉木混交林的林内景观 (四川达县)



16



17



18



18

- 19. 泰山自然保护区飞越的飞行队
- 20. 1978年飞越的飞行队在四合院 (1984年摄)
- 21. 飞越的飞行队在四合院
- 22. 飞越的飞行队在四合院 (1984年摄)



19



20



21



23



24

23. 流沙地飞蓬的台分家 (陕西榆林)

24. 飞蓬的三叶在白沙漠景观中 (西康古尔康镇)

25. 飞蓬草在沙丘上 (甘肃沙丘)

26. 飞蓬草在沙丘上——敦煌 (陕西榆林)

27. 飞蓬草在沙丘上——敦煌 (陕西榆林)



25



26



27



28



29

三、飞播林效益

28. 贵州山区飞播造林和飞播林

29. 贵州山区

30. 贵州山区

31. 贵州山区

32. 生产木材

33. 防风固沙



31



36



37



38



34

四. 播区规划

34. 总播区总体规划

35. 播区规划图



35