

Walpole-Nornalup
National Park Coastal
Dune Survey:

A survey will be carried out in this area mid-October 1986. The survey team will include officers from Manjimup, Walpole and Busselton.

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Winter Bird Count-Gray
Block:

The field work has been completed and the data is currently being punched.

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Warren Rat Study
- Habitat Measures:

Field work is complete! (except for soil attributes). The data collected now needs analysis.

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Heartleaf:

regeneration techniques are still being studied. Assessment of the potential for Goonac MPA to harbour Tammars is being carried out in conjunction with the Collie district.

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Line Form Maps

PRFPA :

These are almost complete. Max Churchward (CSIRO) will be in the field for a week to check field validity of the plan in conjunction with Ecology Research.

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Perup Pitfall Trapping and Searching:

This will be carried out as part of the long term fire effects studies set out by Fire Research. We will be working closely with Gordon Friend on this project.

Data entry:

The Walpole Bird Survey
Autumn '86 has been
entered onto the Perkin
Elmer, as has the Gray
Bird Survey Summer '86
data

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Programming:

Pete Walsh has completed the Equipment Register and information from the existing stock cards is being entered.

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Data analysis:

South Coast Pinus
Radiata data analysis
has been completed for
Gavin Ellis. This
involved the calculation
of pine productivity for
various site types and
rainfall zones.

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Training:

The training manuals "Introduction to Micro-computing" and "MS-DOS Operating System" have been completed and will be used in the training sessions commencing in October 1986.

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"Jarrah Forest" book:
Neil Burrows, in
conjunction with Lachie
McCaw, is compiling 2
chapters for this book.
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Fine Wilding
Eradication-Nannup:
Post-burn assessment has
shown that low intensity
fire is effective in
killing small plants
($<3\text{cm}$ dbhob). Larger
trees need a "hotter"
fire which results in
unacceptable bole damage
to the crop trees.
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Kanneroo Wildfire #22:
This fire is being
examined from a fire
behaviour and fuels
angle. The performance
of the "Red Book" under
fire in Banksia Woodland
fuel is being assessed
in an effort to
understand fuel
accumulation rates.
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KARRI FIRE RESEARCH
Lachie McCaw, John Neal, Bob Smith

"Jarrah Forest" book:
Lachie McCaw has been
heavily involved in
co-writing, with Neil
Burrows, two chapters of
this book dealing with
recovery of forest
canopy species following
fire and fire
management.
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Brockman Block-karri
Establishment Trial:
A suitable site has been
found for this trial.
Logging should be
complete soon, which
will be followed by
further utilisation of
material down to 10cm
diameter.
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Wood Borer in
Regenerated Karri Study:
The second stage of
this study will be
commencing shortly. It
will involve surveys of
the incidence and
severity of borer attack
in stands covering a
wide range of age, site
and management
history. Dr Elaine
Davidson is also
intending to conduct a
survey of wood rots in
karri later in the year.
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Tree Recovery and
Regeneration
Establishment:
A study has been
proposed to assess tree
recovery and
regeneration in the
Brockman National Park
which was burnt by a
high intensity fire in
1985.
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Prescribed Burning of
Regenerated Karri
Prescription:
This prescription has
been updated and
incorporated into the
Regional Operational
Manual. Research staff
will be available to
advise on regrowth
burning once Districts
have arrived at
priorities for burning
in the coming season.
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Survey of Fire
Research Needs:
A survey has been sent
to all Districts and
Regions in CALM to help
establish priorities for
further research into
fire behaviour. Burning
in coastal heathland and
mallee is certain to be
an important topic.
Contact has already been
made with some Districts
regarding such burns.
This work will probably
extend well into to
South-Coast Region and
also to the Northern
Sandplain.
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1983 Planting and
Seeding Trials:
These trials have been
remeasured and the data
is being collated. The
best planted trees were
on well drained laterite
and were up to 4m tall.
Seeded plants were still
struggling with heavy
scrub.
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Fertilising at Yornup:
This trial is
currently being
fertilised (on
schedule!).
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Mychorrhizal Studies:
Mychorrhizal status of
trees in the Lignotuber
Development Study have
been examined and a
degree of variation has
been noted. The results
for this study are not
yet complete and will
eventually be correlated
with other sample
measures.
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Weld Block:
Further assessments have
been made, concentrating
on the more open areas.
No significant
differences have shown
up yet. The seed crop
in this area is heavy at
the moment and
assessments will
continue to examine the
differences in
establishment.
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Site Typing:
Discussion of site
typing and on-site
examinations are
resulting in an
increased awareness and
interest in site typing.
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Assistance to Ian
Abbott:
Entomological assistance
and photography is being
done for Ian Abbott.
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KARRI SILVICULTURE
Gary Inions, Tony Annels, Mike Cully

Site Typing Areas of
Karri Regeneration:
Tony Annels and an
assistant have completed
half of the assessments.
Factors assessed include
27 climatic variables
extracted from the
ESQCLIN programme for
CSIRO, Canberra.
Chemical analysis of
soil samples has
commenced.
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Measurement of
Muirillup Spacing Trial:
Pete Walsh and a
variety of assistants
have completed
collecting the data from
the trial.
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Thinning and
fertiliser trials,
Quartz Road:
Analysis of this data is
being carried out and
Gary Inions is in the
process of preparing the
first draft of a paper,
discussing the results.
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Gary Inions is also
assisting to construct a
growth model for
regrowth karri.
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