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FOREWORD



EVENTS FOLLOWING ASH WEDNESDAY 11 1983

The serious fires of 16th February, 1983 have quite properly led to the holding of a Coronerial Enquiry. While this is to be welcomed, it has become evident that the enquiry will take many months, indeed on the basis of the protracted hearings in the South East of South Australia, it is certain that the anniversary of the holocaust in question will have passed long before the analysis of events on Mt. Lofty are completed.

Because of the legal status of the Coronerial Enquiry, public discussion of the Ash Wednesday 1983 fire has been kept at a very low level, as is proper for any matters normally regarded as 'sub-judice'.

Unfortunately, because of the duration of the Enquiry, many important witnesses may have either left the State or had their memories of relevant events dimmed by the passage of time.

While constructive discussion will have been inhibited by the legal process, many other developments have been under no constraint at all. For example, even though it is a possibility that the Electricity Trust of S.A.'s 11,000 volt power lines could be identified as a cause of some fire-outbreaks, E.T.S.A. has been extremely active since February 1983 not only in reconstructing its original, possibly dangerous, medium-high-voltage grid, but actually extending it. Should the enquiry reveal at some time later in 1984 that this grid requires modification, either E.T.S.A. will protest or vast sums of money will be spent in burying their work which was hastily executed after the fire. The argument against the undergrounding of electricity supply cables has always been based on the cost, not only of the new, buried installation but also of the effective loss of the existing above-ground lines. After a major fire in which hitherto conventional power lines have been damaged, a unique opportunity exists for economically installing a more advanced underground technology. While other informed authorities have remained silent, this rare chance of combining environmental harmony with preventive logic has been lost.

Similarly, the Coroner may recommend certain alterations to planning and building codes in bush-fire prone areas. However by the time this edict might be expected, most houses will have been rebuilt, often on lines as unsuited to their environment as before and many others will have been constructed either to potentially hazardous designs or in locations which may be adjudged as quite unsuitable for sub-division.

This statement is not meant to generate any disrespect for the Coroner, on the contrary, it implies that if there is a need for caution in public debate pending completion of the Enquiry, there is an equal need for caution by those governmental authorities whose current programmes almost certainly affect fire prevention and protection practices. If on the other hand, these programmes which almost invariably have a major impact on the environment, are truly urgent, then the Coroner must be provided with all the means necessary to hasten his deliberations to a conclusion.

Professor Peter Schwerdtfeger
Chairman, C.F.S. Board

EDITORIAL



OUT OF THE ASHES

For many members of the general public, Ash Wednesday is but a bad memory. For many civilians in the affected areas, C.F.S. brigades and members, the nightmare is far from over.

Slowly and painstakingly shattered lives are being rebuilt, but for many the replacement of material things is only part of the job and many fire fighters and civilians alike are still suffering psychological after effects.

Foremost in the minds of the Country Fire Service is the chilling fact that next summer is looming closer and our State will be just as vulnerable once again.

We have no option but to prepare ourselves as we have done since the establishment of the service — Good Luck.

On a brighter note, I am sure you will all join with me in wishing our long-serving comrade friend, Peter Malpas, a long and happy retirement and a thank you for a job so well done in serving South Australia.

LLOYD C. JOHNS,
Director,
S.A. Country Fire Services

Front cover: Country Fire Services Deputy Director, Mr. P.A. Malpas, A.M., B.E.M., retired on Wednesday 29th June 1983, after 32 years service with the South Australian Volunteer E.F.S./C.F.S. Organization.

Fire Fighting Associations, C.F.S. Brigades, Local Government and District councils from around the State have paid tribute to the service and support given by Mr. Peter Malpas.

Peter's attendance at Meetings, Parades, Service Presentations and Commissionings coupled with his dedication, involvement and friendly "smile" has gained him the respect of, and many friends among "The Volunteers".

A reflection of the esteem held for Peter and his wife Vida was expressed by the "surprise" dinners and numerous presentations given in their honour, by Local Government, Fire Fighting Associations and C.F.S. Brigades "on the eve of Peter Malpas retirement."

Peter... the feelings of *all* are best expressed in the closing sentence of a letter received from Mr. D.M. Tregoweth, District Clerk, District Council of Mount Gambier, and endorsed by the Officers and Volunteers of the Mount Gambier Fire Fighting Association.

"I would convey our best wishes to both yourself and your wife, and trust that you both continue in good health for a long and happy retirement."

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C.F.S. farewells Peter Malpas

(by a special writer)

Country Fire Services Deputy Director, Peter Malpas, who retired from the Service on June 29, foresees the C.F.S. moving further forward into areas of new technology and associated fire fighting risks.

Peter, was the longest serving staff member of the former Emergency Fire Services — C.F.S., with an official 32 years association with South Australia's volunteer fire fighting organization. He had an 'unofficial link' for two years, from 1949 to 1951, when he assisted former Director, Fred Kerr, with the annual E.F.S. smoke socials.

He speaks confidently about the future of the C.F.S. — and particularly about the volunteers, who, he believes, will individually and collectively meet all challenges.

Peter Malpas the man, like many others, is a person who successfully changed careers and, in this particular instance, will be long remembered for his personal involvement and interest in what he affectionately describes as "this unique breed of person — the C.F.S. volunteer".

His initial career was in printing — an apprenticeship and a business, but in 1948 he joined the South Australian Police Force, on graduating, was posted to the Mounted Division. He chose the Mounted Division because of his love of horses and two of his favourite mounts were "Quintellar" and "Gellibrand" — both very tall horses which, Peter quips, helped him to appear 'six feet four tall' when he was in the saddle.

In 1949 he began his association with the E.F.S. when Fred Kerr asked him to assist in organising the first smoke social. Two years later, at Fred's request, he was seconded from the force to the E.F.S. — then based "in the old tin shed" in Kintore Avenue.

Peter was one of a small group of police officers who became the nucleus of the E.F.S. administration team. He was promoted to senior constable in 1961.

When the C.F.S. was established in 1978, Peter became an Inspector and later Superintendent in charge of Fire Co-ordination and Control and Service Training. In May 1980 he was appointed Deputy Director.

Awarded the British Empire Medal in the Queen's Birthday Honours in 1980, he also is a Life member of the Country Fire Services, holds the British Fire Services Long Service and Efficiency Medal, the Police Efficiency Medal, the Australian National Medal and at the recent National Medal presentation ceremony was presented a British Fire Services Association Centenary Medal.

He is a member of the International Police Association.

"My long association with the E.F.S./C.F.S. has been a wonderful experience. I have worked with some tremendous people and have seen the service, which developed so much under the leadership of Fred Kerr, become the proud and efficient service it is today," he said.

In 1951 there were about 100 volunteer brigades throughout the State, and most were using ex-wartime vehicles and other equipment. Under the initial Director, Tom Meaney, and Fred Kerr, the units organized as a wartime emergency, were continuing in the post-war years as volunteer brigades.

The brigades were then, as now, dependent to a certain extent on their local councils, and Peter believes that the councils' task has always been helped by the enthusiastic and loyal support of the volunteers.

When he joined the service it was largely identified as "the bushfire brigade — ready to put out stubble and grass fires", but this identity has long since been replaced to a large degree by a positive acceptance of the Service as a brigade trained to a professional level of fire suppression and protection.

And, naturally, the growth which has taken place in S.A. country areas in terms of industry, commerce and residential, has broadened considerably the demands on the volunteer service for fire protection.

Today, the volunteer must know — be trained and be prepared to fight fires not only in open pastures, and through the dense terrain of the Adelaide Hills, but also in factories, commercial and shopping developments, in homes, hospitals and similar institutions, and be able to handle increasing emergencies brought about through the transporting of flammable liquids, chemicals, and other highly hazardous and combustible materials.

These demands have been reflected in changes which have occurred in the design of fire fighting appliances and equipment, in research and development, in public education and publicity, and in the volunteer equipping him or herself, through knowledge and training, to be able to meet these changes.

Peter and his wife, Vida, have enjoyed their long association and personal friendships with many of the original pioneering members, who are still living, and with those who have joined the service over the past quarter century or so.

"The wonderful comradeship and friendships which we have experienced will be something we will always cherish. Not only will I look back on these memories but also to the future when, we trust, there will be opportunities to renew these friendships."



Mr Peter Malpas C.F.S. Deputy Director, receives a plaque from Mr Arthur Holding, President of the Lower North Fire Fighting Association, to mark his retirement after 32 years of service. Photograph reproduced courtesy Northern Argus.

Tribute to Mrs Malpas by Ladies of the C.F.S.



At a farewell dinner organised by the Lower South East Fire Fighting Association, for retiring C.F.S. Deputy Director Mr Peter Malpas, the work of the ladies of the C.F.S. was acknowledged. In particular the role of Mrs Vida Malpas, wife of the retiring Deputy Director. Mrs Malpas (pictured above — centre) was presented with a sheaf of flowers by secretary of the Robe Fire Fighting Association, Mrs Marlene Wendelborn. Looking on (left) is Mrs Meg McArthur, wife of the President of the Lower S.E. F.F.A. and C.F.S. Board member Mr Archie McArthur. Photograph reproduced courtesy The South Eastern Times, photographer Heather Carthew.

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A presentation of a "Life Membership Certificate" was made to Mrs Vida Malpas (wife of retiring C.F.S. Deputy Director Mr Peter Malpas) by C.F.S. Board Chairman, Professor Peter Schwerdtfeger, at the Australian National Medal ceremony held at C.F.S. H.Q. on Friday 24th June 1983.

Mrs Malpas received the honour of Life Membership of the Country Fire Services, in recognition of her dedication and involvement with the E.F.S./C.F.S. with Peter, for over 32 years.

Letters to the Editor.

B.A. EQUIPMENT REQUIRES REGULAR MAINTENANCE *On site service/repair by Drager*

It has been recognised for some time by relevant Safety Authorities that many organisations who use Breathing Apparatus were either unable to, or inadequately maintain their equipment, with the result that many units had possibly become unsafe to use for respiratory protection.

With this in mind, Drager Australia Pty. Ltd. recently launched in Victoria a new Service Vehicle designed to fulfill this need; i.e. the On-Site Service and Repair of Breathing Apparatus.



This Vehicle is capable of doing basic service or major repairs to most types and brands of Breathing Apparatus. It is fitted out with Test Equipment and an extensive Spare Parts Inventory, and also has facilities for refilling Compressed Air Cylinders.

The Organisation utilising this regular On-Site Maintenance of their equipment will receive a Test Certificate for each unit serviced, and a Maintenance Record will be kept.

This servicing of Respiratory Protection Equipment conforms with the guidelines as set out by the Australian Standard ASA 1715 — 1982.

The Service Van will be visiting South Australia from: Monday 26th to Friday 30th September, 1983.

Should your C.F.S. Division wish to partake of this Service visit, or require more information, please contact Drager Australia, S.A. Office on (08) 223 6842, or write to: 341 Halifax Street, Adelaide, 5000.

S.G.I.C. Report on Ash Wednesday II

As a result of a detailed investigation into the two Ash Wednesday fires, the State Government Insurance Commission has recommended a number of initiatives designed to minimise losses in future fires.

Among the major recommendations are that:

- Increased funds be provided for C.F.S.;
- Safe house design standards should be determined for bushfire-prone areas;
- An on-going public awareness campaign should be conducted concerning bushfire danger;
- The use of fire-retardants should be promoted and a Fire-fighting Advisory Committee appointed.

The report also recognises that a properly designed and constructed home can be a safe place in which to shelter from an approaching bushfire.

At present, the State Disaster Act provides for compulsory evacuation, with a penalty of \$5,000 for failure to comply.

One of the S.G.I.C. recommendations is that able-bodied persons wishing to protect their homes from bushfire should be exempted from this provision of the Act, where they have clearly demonstrated their awareness of the implications and responsibilities of remaining within a disaster area.

The use of controlled burning as a means of reducing the fire hazard of reserves and other public land is recommended, with the suggestion that helicopter ignition techniques be examined.

A further suggestion is that E.T.S.A. should look at the implications of cutting off supply in areas at greatest risk on Red Alert Days.

The report also points to the need for guidelines for the better protection of surrounds of homes in country areas and urban fringes, and for personal safety in bushfire situations.

FUND RAISER OFFER TO BRIGADES

* As a means of assisting Brigades to raise funds for equipment or replacement of damaged plant, Waikerie C.F.S. Members have decided to make available, stocks of the popular Garford Port at cost for resale by interested brigades.

* The suggested retail price is \$3.00/bottle or \$36.00/dozen which represents a nice profit for the seller.

* Bottled in 1978 from matured stock by Thomas Hardy & Sons for the Waikerie C.F.S., this Tawny Port is now 12 years old and has the true Tawny characteristics. It is fruity and aromatic and is excellent drinking.

* For any further information or supplies, contact:-

Lt. Phillip Neilson, at
Thomas Hardy & Sons,
P.O. Box 197, WAIKERIE. S.A. 5330

OR Phone 085 41 2277 during business hours.

FOR SALE

1975 DODGE D3F 500 Series with 318 V8 motor, 15,000 km. Fire truck is complete and ready for operations. Equipment includes the following.

550 Gall. tank, Godiver pump producing 30,000 Galls. per hour, driven by a new Nissan diesel, 200 lb dry powder cylinder, hose reel, 40 ft. of suction hose 4 in., monitor, and a crew cab.

PRICE \$20,000 o.n.o.

Enquiries Mail Sec. WOODSIDE C.F.S.
P.O. BOX 88 WOODSIDE 5244
Working Hours 389 7224
Tel. After Hrs. 389 7250

NOTICE TO BRIGADES

1983 FIRE PREVENTION WEEK

Friday 21st to Saturday 29th October

The City Parade of C.F.S. Fire Appliances will be held on Saturday 29th October 1983

A C.F.S. Volunteer's view on training schools.

Have you made up your mind yet whether to enroll in the next "intake" of C.F.S. Volunteers in Stage I to IV Regional Training Schools? If not — Why not?

Here are a few comments from one that's gone through "the mill" and enjoyed every minute of it!

If your Brigade Secretary or Captain asks "you to have a go", don't just say you "haven't the time", or you "feel past learning", give it some thought, and make the effort.

The advantages, knowledge and experience gained far outweigh the trouble taken to fit your working schedule around the weekend away.

The weekends are usually scheduled so that as soon as you have finished work on a Friday, head for the "training camp" (get someone else to check the water, change roster or milk the cows).

The first night, the name tags help to introduce everybody. There's all sorts! From all over the Region — the Captains, the Lieutenants, the experienced old-timer, the F.C.O.'s, Supervisors, new recruits, brigade members — all there because they are interested to learn something.

A motley mixture of jobs and occupations — the farmer, the factory worker, shop assistant, housewife, jackeroo, legal eagle, mechanics, etc. — all with one thing in common. They happen to be C.F.S. Volunteers!

The Instructors also arrive. "What's he going to be like? Is it going to be interesting, boring, above our heads, or what?"

By the end of the first evening we all know they mean business; and we know they know what they're talking about, and for us to get stuck into it!

The instructors also realise that some things Volunteers have to contend with just aren't simple grass fires any longer — L.P. Gas, hazardous chemicals, tankers, railways, arson, accidents, etc., and so the sessions begin; theory, practical, questions and each student having a go!

If it's a house fire, that ladder must be safe; even brand new ladders sometimes don't survive a two man weight test.

It's not much good if a fire is zealously and thoroughly put out if it happens to be an arson case and all evidence is obliterated! You've got to recognise that Police need evidence to convict the arsonist. They also need detailed and accurate written reports. "Maybe's" and "think so's" just aren't good enough!

The Transportation of Dangerous Substances — the number of chemicals manufactured now-a-days, number thousands and are continually at risk on our highways.

The Volunteer needs to be aware of the course of action to follow in case called to this type of accident, so is made aware of the Hazchem Code, which gives him the necessary information to know when to call in the experts. It is far better to realise on a simulated exercise what can go wrong, and therefore when the real thing does happen, hopefully the right decisions are made!

The Volunteer needs to have basic knowledge of first aid and how to apply it. Burns and exhaustion are par for the course if care is not taken.

The Volunteer needs to understand hydraulics. It's not much good if the pump operator doesn't keep the water pressure up to the branch.

The Volunteer needs to know how to test the capabilities and co-ordination of units, equipment, pumps and water supply, etc. You never know when you might be needed to crew a strange unit, so must be versatile.

The Volunteer needs to know that you can estimate the given effect of weather conditions on a fire, to be able to prepare fire breaks and to call in support.

The Volunteer needs to know how to read maps and see the safest and quickest method of attack, location of water supplies, etc.

Radio operators need to know how and who to get for back-up support — The Police, Ambulance, E.T.S.A., etc.

Older, established, brigades probably think they know and do all that, but there are many outlying country brigades who only see each other when there is a fire. Hopefully, as the advantages of having the Regional Training Schools spread, other Volunteers will realise their responsibilities to themselves and their fellow volunteers to make themselves more aware and put their names down!

There is also a great exchange of information outside of classes, and some areas have made vast improvements to local district co-ordination because of this exchange.

The next best thing is, that by the time 4 training schools have finished, you've got 30 to 40 new friends; all keen to have a refresher course before the instructors have had time to work out a programme.

In a controlled situation you can try something you've not done before, extend your capabilities, or realise your limitations.

Give it a go, it's well worth it!

Mrs. M. J. Wendelborn,
BRAY C.F.S.

News from Region 6

A Regional Training Committee first established under the Eyre Peninsula Regional Fire Fighting Association on 22nd March 1982, has already proven most useful in assisting the Regional Officer to formulate training programmes and activities.

The "aims and objectives" of the Committee include the following:—

1. Researching the training requirements of the Region.
2. Planning and programming training activities.
3. Assisting where possible in conducting training activities.
4. Liaison with other Training Committees, e.g. State or District.
5. Reporting to the Regional Association and the C.F.S. Board on training matters.
6. Management of Regional Association funds that are allocated for training requirements.

The Committee reported to be the first of its kind in the State has met on two occasions during the past year, each time to review the previously held Regional Training Schools, and to discuss other training matters and programmes.

A total of 39 volunteers attended the Stage 1 Regional Training School held at Northshields on 15th to 17th October 1982, and 25 members attended the Stage 2 school on 25th to 27th March 1983.

The following Regional Training Schools have been programmed:

October 12, 13, 14 — Northshields — Stage 1.

October 14, 15, 16 — Northshields — Stage 3.

District Training was also conducted by the Lincoln District F.F.A. in and around Cummins on Sunday 31st October 1982, to test the crew's practical knowledge and skills of firefighting.

The Cleve District F.F.A. and the Ceduna Brigade also held training functions prior to the last fire danger season. Other districts are now being encouraged to conduct training schools.

Training resources purchased for use within the Region totalled approximately \$3000.

Mr. Russell Branson of Cleve has been appointed Publicity Officer for the committee to promote and publicise the training activities within the Region. He will be seeking the support of all Brigades and Districts to keep informed as to training matters that could be promoted, both within the Region and at State level via "The Volunteer" magazine.

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Regional Officer Peter Ferris held the office of Chairman of the Regional Training Committee since its inception.

Peter Ferris moved to Adelaide this year to accept a position within the Research Division at C.F.S. Headquarters. His successor to Region 6, newly appointed Regional Officer Kevin May will take up permanent residence in the region in the immediate future.

Message to all Brigades and Councils on Eyre Peninsula.

My thanks goes to the members of the Regional Training Committee for their participation, and my expression of gratitude to the womenfolk and everyone involved in the successful running of the regional training schools.

I express to all, my best wishes for the future of the Regional Association and its place within our Fire Service.

Congratulations and best wishes are also extended to the newly appointed Regional Officer for Region 6, Mr. Kevin May and his family, as they prepare to settle in the Region.

Regional Officer Peter R. Ferris, Research Division.

Board appointment of E.P. farmer



Cr. LEON P. MURRAY

Councillor Leon Murray of North Shields on Eyre Peninsula has been appointed a member of the Country Fire Services Board.

The appointment was announced by the Minister of Agriculture, Mr Frank Blevins.

Cr. Murray is a member of the District Council of Lincoln, elected in 1977 as Councillor of Louth Ward and has been a member of Louth Bay C.F.S. since 1954.

Elected fire control officer in 1960, truck captain 1961 and deputy supervisor 1970, Mr Murray has also been secretary of the Louth brigade for 8 years, held the office of the President of the Eyre Peninsula Fire Fighting Association for the past 5 years and is a member of the Region 6 Training Committee.

His somewhat distinguished career includes association with the United Farmers and Graziers of S.A., Lincoln and Districts Branch as past secretary; Member, past president and secretary of Charlton Agricultural Bureau, being made a life member of the Agricultural Bureau of S.A. in 1972; is a Justice of the Peace (elected 1970); gained "Justice of the Quorum" in 1971; and is currently a member of the Eastern Eyre Peninsula Pest Plant Control Board.

An active sportsman, Leon Murray has held various executive positions on local sporting bodies. Married with 3 children, he farms 2,200 acres in the North Shields district, raising cereals and grazing sheep and cattle.

In 30 years of farming and other activities Cr. Murray has travelled extensively on Eyre Peninsula and has an intimate knowledge of the problems associated to Eyre Peninsula and Country Fire Services.

"The Volunteer" pays tribute to retired Country Fire Service Board members Messrs Jack Hare and Peter Swann . . . story to follow next issue.

E.P.R.F.F.A. 26th ANNUAL ELECTIONS

On Monday, 8th August 1983 the following E.P.R.F.F.A. committee members were elected to office:

President: Mr N. L. Simpson of Wudinna replaced Mr L. P. Murray who resigned due to his appointment to the C.F.S. Board.
Vice President: Mr A. H. Scholz of Wudinna replaced Mr N. L. Simpson of Wudinna.

Secretary: Mr L. W. G. Collins of Ceduna accepted the position of Secretary following the retirement of Mr L. M. George.

WHAT'S HAPPENING IN REGION 4

Regional Training School

October 21, 22, 23 — Bowman Park, Crystal Brook — Stage 2
Open to all C.F.S. Personnel who have completed the Stage 1 School.

Breathing Apparatus School

November 4, 5, 6 — Bowman Park, Crystal Brook — B.A. Course.

Enrol now through your Regional Officer.

Contact: R.O. George Polomka

Jamestown C.F.S. Regional Headquarters,

P.O. Box 66,

JAMESTOWN 5491

The Ash Wednesday II bushfire in the Clare Valley has indirectly resulted in Country Fire Services Brigades and Councils within Region 4 taking a closer look at the need to upgrade or alternatively replace older fire fighting equipment and or appliances . . . R.O. George Polomka.

History-making C.F.S. course at High School.

Year 10 students at the Gladstone High School have the honour of being the first in the State to complete a 13-week fire-fighting course which allows them to become cadets with the Country Fire Services. The course was completed in December 1982.

Eighteen students, including four girls, completed the course and in a theoretical and practical examination achieved an average pass of 88 per cent.

Top student was Andrew Wilsdon, 15, of Gulnare, who scored a 99 per cent pass.

School principal, Mr. Philip Burfield, and the teacher in charge of the course, Mr. Tony Wege, said that while the course had been an 'elective', it was an integral part of the school curriculum.

Strong support had been given by C.F.S. Headquarters, Regional Officer George Polomka, of Jamestown, and by the Secretary of the Georgetown C.F.S., Mr. Clive Cook, a local clergyman.

Two thirds of the students who did the course come from farms in the Gladstone district — from Yacka in the south, to Wirrabara, in the north.

"The enthusiasm shown by the students, whose average age is 15 years, reflected their keen interest in equipping themselves as future members of the C.F.S. and in gaining knowledge that will be of lasting benefit to them," Mr. Polomka said.

The 13 week course meant the students spending two hours one day a week, between recess and lunchtime, in practical and theoretical lessons and Mr. Wege said these times were often extended because of the students' enthusiasm.

And, this enthusiasm is already being illustrated through the students putting into practice what they've learnt — with their local brigades and in improving fire protection measures in and around their homes.

In continuing with the policy of including fire subjects/courses among the school electives; the 1983 programme set out by the Gladstone High School for the period 7th April to 16th August, is tabled on page 7 for our readers interest. . . Editor.

GLADSTONE HIGH SCHOOL ELECTIVES 1983
(7th April to 26th August)

<i>Date</i>	<i>Session</i>	<i>Subject</i>	<i>Subject Material Covered</i>	<i>Date</i>	<i>Session</i>	<i>Subject</i>	<i>Subject Material Covered</i>
7 Apr	1	Introduction of course	Country Fire Services. Explanation of Course. Film—"Understanding fire".	8 July	24		Contours — North points — Grid references — Bearings. Part 3: Practical: Use of grid references — Conventional signs — Bearings
8 Apr	2	Physics and Chemistry of Combustion	What is Fire? — Stages of combustion — Fire triangle — Fire Properties — Products of combustion.	14 July	25	Grass Fires	Part 1: Expected type and rate of spread — Fire detection equipment — Report forms.
14 Apr	3	Glossary of common fire service terms and commands	Signals — Commands — Standard terms of equipment — Fire extinguishers — Hydrants — Ladders — Branches and nozzles.	15 July	26		Part 2: Suppression Methods — Film: "Design for disaster"
15 Apr	4	Household fire protection	Fire prevention and protection in the home — fighting small fires inside and outside the home — Improvised fire extinguishers — Film "Fire—Not in my house"	21 July	27		Part 3: Practical: Tactics of fire control using tactic board.
21 Apr	5	Fire Hose and Equipment	Part 1: Types — Construction — Handling — Storage — Care of fire hose.	22 July	28	Ropes, Knots and Lines	Part 1: Types — Use and care of ropes
22 Apr	6		Part 2: Practical: Testing of fire hose — Use of hydrants — Use of equipment	28 July	29		Part 2: Practical: Knots
28 Apr	7	Ignition, growth and development of fire	Stages of fire — Fire intensity — Spread of fire — Radiation — Conduction — Convection	29 July	30	Revision	Revision of Sessions 22 to 29
29 Apr	8	Fireground terminology	Terms used in fire fighting operations and should be understood by all firefighters	4 Aug	31	Examination	Subjects covered in Sessions 22 to 29
5 May	9	Ladders	Part 1: Types — Construction — Handling — Care of ladders	5 Aug	32	Fire Extinguishers	Part 1: Purpose — In event of fire — Inspection of premises — Types — Colour code — Classes of fire — Operation of extinguishers
6 May	10		Part 2: Practical: Testing — Raising — Climbing — Alighting from ladders — Fire streams from ladders — leg lock	11 Aug	33		Part 2: Practical: Use of different types of extinguishers
12 May	11	Revision	Revision of Sessions 1 to 10	12 Aug	34	Rescue Methods	Part 1: Practical: Emergency methods for rescuers
13 May	12	Examination	Subjects covered in Sessions 1 to 10.	18 Aug	35		Part 2: Practical: Removal and rescue of injured
2 June	13	Building Fires	Part 1: Information of despatch — Time — Fay — Occupancy — Control of stairways — Fire attack — Rescue and search — Ventilation. Film: "Fire fighting strategy"	19 Aug	36	Revision	Revision of all subjects covered throughout course
3 June	14		Part 2: Arriving at fire — Chimney fires — Roof fires — Control officers strategy — Methods of entry and hazards — Salvage — Overhaul — Security	25 Aug	37	Practical assessment exercise	Use of radio — Fire Hose — Fire Equipment — Ladders — Extinguishers — First Aid — Rescue Methods
9 June	15	Communications	Part 1: Types of equipment — Voice messages — Phonetic alphabet — Prowords — Calling and answering procedures.	26 Aug	38	Written assessment	Covering all subjects of Elective Course
10 June	16		Part 2: Practical — Exercise using base and portable radios.				
16 June	17	First Aid Prior to Transport	Part 1: Minor injuries — Burns — Sprains — Fractures — Heat Problems				
17 June	18		Part 2: Resuscitation				
23 June	19		Part 3: Revision of Part 1 and 2 Sessions 17-18				
24 June	20	Revision	Revision of Sessions 13 to 19				
30 June	21	Examination	Subjects covered in Sessions 13-19				
1 July	22	Map Reading	Part 1: Introduction — Use of maps — marginal information — Types of maps — Map Plotters				
7 July	23		Part 2: Scales and measurement of maps — conventional signs —				

S.E. REGIONAL H.Q. BUILDING

The South-Eastern areas of the State are to have their own Country Fire Services regional headquarters building at Naracoorte.

The C.F.S. Board has approved the building to be located at the corner of Caves Road and Arthur Street.

For the past few years, the S.E. Regional Officer, Mr. Murray Sherwell, has worked from an office in the Naracoorte Council Chambers.

C.F.S. Director, Mr. Lloyd Johns, said the transportable-style building, due for completion on site by the end of September, would combine the regional headquarters and co-ordination centre for the South-East.

It will include an office, a radio room, and a larger room which could be used as a co-ordination centre in the event of a major fire, and as a meeting room for regional activities.

The Naracoorte Corporation has assisted with the levelling of the site in readiness for the building.

Coupled with the establishment of the S.E. headquarters would be the upgrading of the radio network covering the whole of the area from Coonalpyn and Meningie through to the Victorian border, and for improved radio communications with C.F.S. Headquarters in Adelaide.

Mr. Sherwell said news of the establishment of the regional headquarters was a morale booster for volunteers in the S.E. The building would allow for better facilities and more congenial working conditions.

"We appreciate the assistance given by the Corporation in providing an office in the council chambers over the past few years, and for the help in preparing the site for the new building," he added.

Smokey's role — to teach children

SMOKEY THE KOALA



To coincide with the start of the 1983 school year the Country Fire Services Board of South Australia introduced their own costumed character "Smokey the Koala" (pictured above) — designed to teach fire prevention to children, in their early school years.

"Smokey the Koala" was chosen as the C.F.S. bushfire prevention symbol due to the natural appeal of the koala. A typical and quite unique Australian native animal that is itself a potential early fire victim, because of its inability to out-run a bushfire.

The introduction of a *costumed character of "Smokey"* who has been South Australia's fire prevention symbol since 1961 will, the C.F.S. Board believe, be invaluable in helping to achieve the objective of fire prevention education to children.

However ... "Smokey the Koala" was temporarily *withdrawn* from the public eye, soon after his official introduction to South Australians at the annual Smokey's Birthday Party at the Adelaide Zoo on 26th January; due to the disastrous Ash Wednesday II bushfires of 16th February, 1983.

In the aftermath of the fires the more urgent and immediate needs of the public and C.F.S. brigades had to be served, so the proposed programme involving "Smokey the Koala" was curtailed. Appearances of Smokey were made solely to comfort children and to help brigades raise funds for equipment lost in the fires.

Now, with the summer season just months away, "Smokey the Koala" has come out of hibernation.

A children's pantomime — involving "Smokey the Koala", a Fierce Fred Flame, a script and chipboard picture panels which convey a simple fire prevention story; is currently in use.

Already letters requesting the appearance of "Smokey the Koala" at Fire Fighting Association district parades, festivals, brigade fund-raising fairs and school activities, have been received at C.F.S. Headquarters.

Primary school children requesting fire information from C.F.S. H/Q for school projects etc. receive by return mail a covering letter with their material — a fire prevention message from "Smokey The Koala".

"Prevention is better than cure", says the age old maxim.

We are sure "Smokey the Koala's" prevention efforts will play a significant role in helping to reduce the incidence of fire and the demands made on the Country Fire Services Volunteer fire fighters.

For further information contact:

Programme Organiser, Peter Mills, Publicity/Promotions,
C.F.S. Headquarters.
Telephone (08) 297 6788.

© "SMOKEY THE KOALA" — COSTUME DETAILS

Costume Design: * one piece contains head, body with hands (paws) and legs with separate furry feet. * entry is from the back of the costume; with a zipper at the back.

Colour: Grey and white.

Material: Short pile grey fur.

Identification/Accessories: • C.F.S. shoulder flashes (South Australian Country Fire Services), stitched onto the costume's shoulders. • Metal name badge with clip pinned on to the costume's chest. The badge (gold) contains a C.F.S. membership badge with the name "Smokey the Koala" in blue enamel. • C.F.S. fireman's helmet, with the name "Smokey the Koala" on both sides of the helmet in red intracut letters. The helmet comes complete with a long elastic chin strap.

Specifications: Overall costume height: — 2 metres. Head size: 850cm wide (to tips of ears) x 450 cm deep.

© Copyright: Country Fire Services Board of South Australia.



"Smokey the Koala" gives, and in return receives a big hug from a young friend; when he met children from the devastated areas of the South East at the Grape Zenolian Festival, following Ash Wednesday II.

"Smokey the Koala" visited the Christies East Junior Primary School, met the children, gave a pantomime as referred to above and afterwards distributed trees to junior primary school students; for planting in the school grounds.

The visit by "Smokey" was part of a Bushfire Appeal Week programme organized by the school.

A Port Noarlunga/Moana C.F.S. unit attended the "Fire Night" (part of the school's bushfire appeal week programme), and demonstrated fire fighting techniques.

The Christies East School raised over \$600 from the appeal. The money will help children from the fire affected area of Kalangadoo School, in the South East.

The recent visit by "Smokey the Koala" resulted in the receipt of a personal letter of thanks to Smokey. The letter is reproduced below:

Dear 'Smokey',

Please find enclosed the words and music for the song that was composed in honour of your visit during our 'Bushfire Appeal Week'.

Your visit stimulated an exciting and education 'Fire' theme.

Yours sincerely,

Cheryl Wilsdon
BUSHFIRE COMMITTEE
Christies East School

SMOKEY KOALA

(Sung to the tune of Leo, the Lion.)

Verse 1.

Smokey Koala
Has a message for everyone,
He wants you to take care with fire.

If you're in the hi-lls
And you stop for a barbecue,
Be sure that you put out the fire.

Verse 2.

Fires can be deadly,
They can kill and destroy
Anything that they find in their way.

A spark from a campfire
Or a careless cigarette
Can very quickly spread
That's why we say . . .

(Repeat first verse . . .)

words by J. Sly.
Christies East J.P. School.

Smokey's Friend



MRS. BARBARA O'DANIEL

Smokey's Birthday Party just wouldn't be the same without St. John Brigade member, Mrs. Barbara O'Daniel, there to give First Aid. Now the Superintendent of the Marion St. John Nursing Cadet Division, Mrs. O'Daniel joined the Brigade in 1958. She has been looking after our Birthday Party children for 17 years and has "loved every minute of it".

Mrs. O'Daniel's dedication and hard work were recognised by a St. John Priory Vote of Thanks in 1972, and admission to the Order of St. John as a Serving Sister in 1980.

Mrs. O'Daniel has 5 grown up children of her own, and with one of her sons, keeps aviaries with all sorts of Australian birds at home. She also enjoys ballroom dancing three nights a week. But, as she says, "St. John has been my life and will be for a long time to come".

The Country Fire Services Board and "The Volunteer" acknowledge the untiring volunteer first-aid service provided by Mrs. O'Daniel at the annual Smokey's Birthday Party at the Adelaide Zoo.

Mrs. O'Daniel has truly been an "angel" to the many children who have attended the party over the past 17 years and a friend of Smokey the Koala; South Australia's fire prevention symbol ... Editor.

C.F.S. GIFT MONIES BEING DISTRIBUTED

The South Australian public and community organisations have, conservatively, given several hundred thousand dollars to the Country Fire Services and its brigades following the Ash Wednesday II disaster.

A C.F.S. spokesman reported that \$140,000 had been received at Headquarters in donations, which has been paid into the "C.F.S. Ash Wednesday Donation Account". It was conservatively estimated that considerably more had been given directly to individual brigades throughout the State.

The donations represented an enormous and heart-warming response by the community. All monies received by Headquarters would shortly be distributed to brigades and other recipients.

"As public monies were involved, it was not practical to start the distribution until all donations had been received.

"Many donations received at Headquarters were made as specific gifts, not only to individual brigades but to assist volunteers who had been injured and families of those who died during or as a result of the fires.

"All donations have now been processed, and donors who made specific requests as to how their gifts should be used, can be assured that these requests are being met," the spokesman said.

The donations made to C.F.S. were additional to those subscribed to the State-wide Lord Mayor's and Premier's appeals.

Bike-A-Thon Aids C.F.S.

29 members of the Rotaract Club of Blackwood, to show their feelings for the recent Ash Wednesday II tragedies ran a "Bike-a-Thon". With two tandem bicycles, escorted by 2 Mitcham Hills C.F.S. units and Rotary support trucks the "teams" covered a distance of 32 kilometres and raised approx. \$1200 to aid the C.F.S.

S.A. Rotary Clubs have raised the magnificent sum of $\$1\frac{1}{4}$ million in bushfire relief following Ash Wednesday II.

WAR WIDOWS GIVE \$3,500 TO C.F.S. BRIGADES

War widows in two States have raised \$3,500 to assist Country Fire Services brigades in South Australia which suffered vehicle or equipment losses during the disastrous Ash Wednesday II fires.

The State President of the War Widows Guild, Mrs Eric Mayo, presented cheques for \$700 to each of five C.F.S. brigades.

Mrs Mayo said the New South Wales Guild has donated \$500, the South Australian Guild \$1,000 and the remaining \$2,000 had been raised collectively by the Guild's 1300 members in this State.

"We are very proud of the way in which our sister Guild in N.S.W. rallied to the cause, and equally proud of how our own members in South Australia undertook many fund-raising activities to ensure that our donation was a worthwhile amount to assist the brigades," she said.

The brigades were Tea Tree Gully, Carey Gully, Macclesfield, Cuddle Creek/Gumeracha and Wattle Range North, in the South-East.

C.F.S. representatives, headed by the then C.F.S. Deputy Director, Mr Peter Malpas accepted the cheques. On receiving a cheque on behalf of the Wattle Range North C.F.S., Mr Malpas warmly congratulated the War Widows on their generous community spirit.

Other C.F.S. representatives at the presentation were — Dean Sandford, Tea Tree Gully; Gordon Badenoch, Carey Gully; Colin Matschoss, Macclesfield; and Ross Schlein, Cudlee Creek/Gumeracha.



Pictured above, Mr Dean Sandford of Tea Tree Gully C.F.S. (left) accepts the \$700 cheque for his brigade from Mrs Eric Mayo, State President of the War Widows' Guild. Photograph reproduced courtesy Messenger Newspapers.

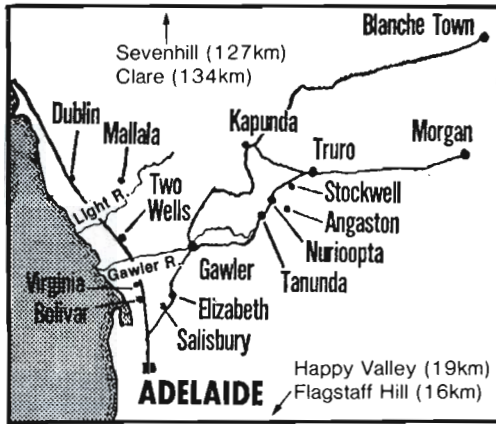


Photograph reproduced courtesy The News. THE FLOODS ... refer pages 10, 11 and 12.

THE FLOODS OF MARCH 2nd — 3rd 2nd Natural Disaster for S.A. in 1983

A flash flood resulted from torrential rains which caused widespread damage and flooding in South Australia on Wednesday 2nd March 1983.

Hundreds of C.F.S. volunteers still weary after the bushfires, had yet more sleepless nights as they worked with Police and State Emergency Services in rescue and evacuation of residents from flooded homes in areas of the Mid North, Barossa Valley, the Adelaide Hills and south of Adelaide.



The worst hit areas of the State were Clare, Sevenhill, Burra, Eudunda, Roberstown, Truro, Stockwell, Nuriootpa, Tanunda, Angaston, Gawler, Flagstaff Hill and Happy Valley.

Fire-blackened Clare (result of Ash Wednesday II bushfires) suffered its second emergency in 14 days as floods turned roads into impassable rivers littered with debris from the surrounding hills.

Clare recorded 2½" (62.4mm) of rain.

The Hutt River and a number of small creeks burst their banks after constant downpours and thunderstorms. Damage resulted to houses, bridges and the environment. Water flowed uninterrupted through much of the severely fire burnt areas around Sevenhill and south of Clare.

Under a constant downpour the Caravan park flooded, while at the same time calls to the Police established that the area around Sevenhill was in trouble. To prevent Readon's dam overflowing sluice gates were opened. Similarly water rose steadily near Spring Farm. Quick work by the Police, C.F.S., S.E.S. and general volunteers had all business houses and many homes sand bagged to minimise flood damage.

By 6.30 p.m. (1830 hours) waters began to subside, but volunteers continued filling sand bags as the weather forecast threatened more deluges. Luckily Clare is sited in a small catchment area, so within an hour much of the crisis was over.

But the flood had left its mark. Some houses were flooded, others saved, still sustained water damage as did business houses. The Clare Caravan Park was in a quagmire and pot holes had been gouged in roads.

At Burra 150 km north of Adelaide severe storms left in their wake flood damage in many parts of Burra and surrounding districts.

Burra's crisis began on Wednesday night at about 6.30 p.m. (1830 hours) when a severe storm lashed the town. About 150 points of rain fell by 7 p.m. (1900 hours). The main street was awash with swirling muddy water 18" (457mm) deep. There was a report of 8 houses being flooded at Burra North.

Burra S.E.S. and C.F.S. under Police supervision swung into action. One crew went to Mt Bryan to try to save two (2) tractors being washed further into a dam. Another crew of six set off for Clare but had to return because of roads being cut by floodwaters. Some Burra cottages and shops were isolated by floodwaters.

At 9.00 p.m. (2100 hours) the Weather Bureau issued a report indicating a severe storm would hit east of Clare about 11.00 p.m. (2300 hours) Wednesday evening. Volunteers immediately began sand bagging but the storm didn't eventuate.

In excess of one million (\$1m) damage was caused to roads, houses and properties in the Eudunda and Roberstown areas. Preceded by a series of heavy hail showers with hailstones up to 2cm in diameter, rain fell in two stages.

It had gutters and hills running; then on the second downpour, by far the heaviest, caused street curbing to overflow and literally thousands of gallons of water to inundate the surrounding countryside.

Water in the Eudunda main street extended from curb to curb to a depth of up to 20" (50 cm). Stock losses were heavy. A total of 600 sheep were reported swept away by flood waters, some even finished in

trees up to 12 feet (3.6m) above ground level. Road damage estimate was \$150,000 in Roberstown and \$500,000 in the Eudunda district. The Eudunda to Truro road was undermined in sections to a depth of 8 feet (2.4m). Losses to property fences was enormous, informed farmers put \$500,000 as an estimate on replacement cost.

Railway line was damaged between Hansborough and Hampden. A 656 ft (200m) section of railway line near Hampden was shifted 6 feet (180cm) sideways by the force of the flood.

Hailstones the size of golf balls and almost 9 inches (225mm) of rain hit the Dutton areas across to St. Kitts, Truro and Moculta in the afternoon, flooding Truro and bringing water down on Nuriootpa.

Business houses, hotels, wineries, car yards, homes and shops were hit by tonnes of mud and water. Other losses included fencing, stock, fodder reserves, farm buildings and machinery.

"A sea of mud" surged across the 20 sq kilometre valley. Fences around vineyards, and many rows of vines were flattened or swept away. A 19½ ft (6 metre) high bridge was soon weakened and bowed by floodwaters washing away a large stone wall which held two steel support beams, another bridge was washed away, a water main burst with floodwater pressure, bitumen on roads was washed away to reveal stormwater drains. By 4.00 p.m. (1600 hours) Truro had no electricity or running mains water.

At Stockwell metre high waves swept cars, trailers, cows, some horses and a caravan and machinery across properties; and houses were affected. One home alone at Stockwell sustained \$80,000 damage. Ladies and their babies were trapped in the home of Mr and Mrs Fittell. With floodwaters moving cars outside near the home's large glass windows Mr Fittell risked personal injury in an effort to deflect anticipated debris through the windows when, miraculously their strong rear fence gave way diverting water from the front of homes. Shortly after, the Nuriootpa CFS defying raging waters rigged a fire hose across yards and paddocks to carry babies and mothers to safety.

A section of railway line on Stockwell to Light Pass section was ripped away with ballast sending tonnes of mud towards Light Pass, leaving behind holes. One was about 6 feet (180cm) deep. Properties which were adjacent to a creek were the hardest hit at Stockwell. One large vineyard was flooded, other vineyards were covered with mud and silt. One home had a log speared through a room.

An avalanche of water surrounding hills roared through Angaston, leaving a trail of destruction and debris and carried onto low lying Nuriootpa.

The damage bill in Barossa Valley alone climbed above the \$7 million mark. Over 170 homes in Nuriootpa were damaged along with many isolated homes in the area, the effect of the Light and Gawler rivers overflowing and floodwater moving down from Angaston, Truro, Keyneton and Eden Valley.

Many of Nuriootpa's 4000 inhabitants scrambled to higher ground as water up to 5 ft (1½ metre) deep inundated shops, the hotel, police station, post office, high school and hundreds of homes. People had to be later rescued from roofs of houses in low lying areas and from tops of cars. At the Nuriootpa Centennial Park one caravan was washed down the creek and five others were damaged.

Floodwaters also burst from the nearby North Para River and flowed half a metre deep through the Nuriootpa winery. Casks piled metres high spilled over. Three metre deep cellars containing some 750,000 bottles of wine, bins of bulk wine and 60,000 bottles of valuable old museum wines, were filled with water.

The floods caused havoc in Barossa Valley vineyards, as the grape picking season (which began in February 1983) was only half over when the floods struck.

At Nuriootpa as floodwaters crept higher a combined St. John operations saw 21 ambulances converge on the town to evacuate 97 patients from the Barossa Valley Nursing Home. Local houses, schools, business houses, the caravan park and senior citizens' home all sustained damage.

There were hundreds of stories of horrors and heroism. People seeking safety on top of their roofs, saw nearby buildings crash into the water.

David Linke of Nuriootpa risked his life on two occasions, when saving a family of five from the Nuriootpa Bridge on the southern end of Nuriootpa where they were trapped hanging onto the bridge railing as water swirled around them David Linke drove his big 14 tonne front-end loader into the floodwaters but felt it being swept away, so he retreated, then he came in a different way using water in the bucket as ballast. Those on the bridge clambered into the metal loading bucket and were brought to safety — after almost 2 hours in the water.

Two vehicles and occupants were stranded in swirling floodwaters, occupants clambered into the back of a utility, then the top of the bridge

continued page 11 ...

THE FLOODS OF MARCH 2nd-3rd continued . . .

vanished underwater. Fence posts were uplifted one by one and swept away and the vehicle began moving with the strength of the water, then through the water came David Linke and his bulldozer being actually lifted with the water as he went to their rescue.

In one incident of many; Nuriootpa C.F.S. cut through a ceiling, then a roof to make a save of a person perched on a roof.

There were some worrying moments when a group of men set up a safety rope across floodwaters to rescue elderly people from the Senior Citizens' Home at Nuriootpa, and the stories of support, rescue, donations of food, clothing, money, labour . . . are endless . . .

Amid the debris Mr Bruce Robin, third generation orchardist at Nuriootpa clung for his life for 90 minutes to a post 50 metres from where his mother 84 years and his wife clung to the homestead roof. Rescued by two young men he survived to see the ruin of his 5,000 trees. He has since worked non-stop to harvest the remaining two-thirds of his orchards salvagable fruit.

Police estimated damage at Nuriootpa alone, at over \$4 m. 141 houses in the town suffered an estimated \$2.4 m damage, local schools \$290,000, business houses \$240,000 caravan park \$105,000 and senior citizens home \$91,000. More than 200 Police, C.F.S., S.E.S. and volunteers were called in.

Damage to power and telephone cables caused chaos, when hundreds of telephones were cut. Mt. Barker district C.F.S. volunteers helped to mop up after the Nuriootpa floods. Mt. Barker C.F.S. crew spent Saturday 5th March at Nuriootpa, while crews from Hahndorf, Nairne and Brunkunga went on Sunday 6th with Brunkunga also turning out again on Monday 7th March.

Students at Roseworthy Agricultural College had a torrid introduction to rural life since the start of their academic year. About 70 staff and students left their classrooms on Ash Wednesday 11 to assist at the Gumeracha fire and spent the rest of the week helping in clean-up operations. Then just two weeks later many of the same group were involved in a team of 60 Roseworthy volunteers who worked throughout the night to assist in fighting floodwaters.

Three homes in Tanunda near the North Para River received flood damage.

In the height of the storm at Tanunda two campers from Victoria were swept down a raging creek. Miss Gill and Mr Ziada were "dumped" in the creek when the deluge washed away the tent and vehicle. After going under in muddy water and debris Mr Ziada managed to cling to a tree then climbed onto a branch and was eventually rescued. However, Miss Gill was just beginning her nightmare as she was carried away — she was swept into a fence and grabbed hold, but the fence gave way, further on another fence loomed up which she clung to, but was hit by a log and was washed away again, only to be smashed against a tree, she went under and twirled around eventually coming up on the side of the creek and finally climbing out. Exhausted and battered and almost frozen Miss Gill walked across a paddock to a deserted house, then found a road where she waited and was finally rescued.

Flooding occurred around the Angaston Council Offices, where water could be seen lapping windows of the building. Shops and businesses received stock damage, when a small creek flooded.

The Barossa and surrounding districts flood damage estimated by Nuriootpa Police: \$8 million damage.

Damage to 262 houses and units	\$4,111,316
29 sheds	29,150
fencing	126,500
stock	32,629
hay	25,850
Vehicles marooned or lost: 17	value unknown
schools	290,000
Clare Caravan Park	109,500
Senior Citizen Homes	91,000
Business	818,715
Wineries	1,636,800
Orchards	395,000
Crops	253,700
TOTAL	\$7,920,160

Forks of lightning and sheets of rain which followed a thick blanket of cloud, brought semi darkness to much of the State in the afternoon.

In Adelaide where 1 inch (26 millimetres) of rain fell between 3-6 p.m. roads were flooded and transport virtually stopped. Stormwater drains, dry for months, became raging torrents spilling out over roads. By 4.30 p.m. (1630 hours) water had blocked drains, traffic built up and traffic lights failed. In the 4 hours after 4.00 p.m. (1600 hours) the R.A.A. received 300 calls/hour from stranded motorists. M.F.S. and S.E.S. received hundreds of calls of help from home owners wanting sand bags,

pumps and other equipment, as heavy rains had caused flooding in a number of suburbs.

In mid afternoon the Adelaide Airport was closed for 14 minutes when ½ inch (14 millimetres) of rain reduced visibility to zero. Strong winds brought down trees.

The area south of Elizabeth was badly hit as stormwater drains overflowed. A lightning strike at Cavan put radio 5AD off the air for 10 minutes while at Channel 9's station masters control room, floodwaters put the station off the air for about 15 minutes.

More than 1,000 people were evacuated from their homes and caravans near Gawler before a 16 ft (5 m) wall of water cascaded down the Gawler River (north of Adelaide) at about 2.30 a.m. on Thursday morning. Some caravans were towed to higher ground, 9 were swept downstream and 7 were damaged, submerged in mud and water up to 3 metres deep.

(Photograph reproduced courtesy The Bunyip, Gawler)



C.F.S. firefighters, Police and Gawler residents spent much of Thursday pulling vans and vehicles from the mud and precarious positions on the edge of the river.

Mr Colin Semmler, Northfield C.F.S. said "Most of our guys had hardly recovered from the fires 2 weeks ago and now we are almost up to our necks in mud and water." The flood peak took only about 2 hours to reach Gawler from the devastated Barossa Valley towns, but the remainder of the journey to the coast took almost a day.

Many roads were underwater and a number of houses flooded at Munno Para. There were also reports of fallen trees.

At the Edinburgh R.A.A.F. base 100 millimetres of rain fell to 9.00 a.m. Thursday morning, causing an estimated \$100,000 damage to buildings and several aircraft were "rendered unservicable".

The floods were declared a disaster by the Premier of South Australia, Mr John Bannon on Thursday, 3rd March 1983.

A weather report for Thursday afternoon indicated "severe storm warnings" — storms heading from Flinders Ranges to the Mid North, estimated time to reach Burra, around 4.00 p.m. (1600 hours).

As a precaution some 500-600 sandbags were filled. By 3.00 p.m. (1500 hours) a severe storm hit Burra.

A 1000 gallon (4,500 litre) water tank was washed away, and jammed under a street bridge causing severe flooding. A dam at the rear of the Burra hospital overflowed and threatened to burst.

C.F.S. and S.E.S. members, volunteers with police personnel tackled the task of rescue work and sandbagging during the storm. By 7.30 p.m. (1930 hours) all danger had passed, but calls "for help" kept coming in till 11.00 p.m. (2300 hours). In the wake, six homes, a hotel and car showroom were flooded.

Short sharp squalls dumped more heavy rain with falls of up to 20 millimetres in 20 minutes. With further deluges on Thursday evening the Gawler River continued to rise threatening 20 houses near Port Wakefield Road.

Sand bagging continued throughout the night to try to stave off the floodwater, as local heavy falls could cause further major damage to areas hit hard.

The townships of Two Wells and Virginia escaped serious flooding, but seedlings in glass houses and open fields of market gardens in the Gawler River and McDonald Park areas were wiped out.

The township of Lower Light was largely underwater and on Monday 7th March, two houses in the area were still surrounded by water.

Thursday evening — communications to the Barossa Valley, Clare, Eudunda and other areas were in chaos, because of cable damage on Wednesday night. Thousands of telephones in the metropolitan area

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THE FLOODS continued . . .

were also out of order.

The outer northern suburbs of Elizabeth, Salisbury, Parafield Gardens and Bolivar were also affected by flood. Trees fell on houses and carports and roofs were torn off in the gale.

Other areas flooded were Greenhill, Waterfall Gully and Norton Summit which had been ravaged by fires just two weeks before. Waterfall Gully residents told of a sudden "wall of water" rushing through their area, dragging debris and rocks behind it.

At least 13 homes were seriously damaged, over 60 yards received minor flooding and 18 yards were seriously flooded in Flagstaff Hill and Happy Valley.

While 15 homes south of Adelaide were flooded with large areas of surface water reported in flats near McLaren Vale.

At McLaren Flat a build up of debris from the Ash Wednesday II bushfires was carried in mud and slush from the nearby hills, through some McLaren Flat properties. Mud was about 20 cm deep around some houses. A small 1 metre creek spread to 50 metres as mud flowed down the hill.

On Friday morning 4th March, at 5.00 a.m. another violent storm caused minor flooding and minor incidents occurred all Friday.

Saturday saw a major clean up of the Barossa Valley and other devastated areas of the State. "The storm had finally abated".

During the storms, Country Fire Services volunteers, State Emergency Service members and local police assisted by various community bodies answered calls to evacuate people stranded on roof tops, caravans etc. and backed up the main State Disaster Operations.

The Red Cross ladies, Salvation Army, St. Petri Ladies Guild, Seventh Day Adventists, C.F.S. Ladies Auxiliaries and other ladies were magnificent. They marshalled blankets, arranged billets and provided food for flood victims. Other helpers also rallied to the plight of the victims.

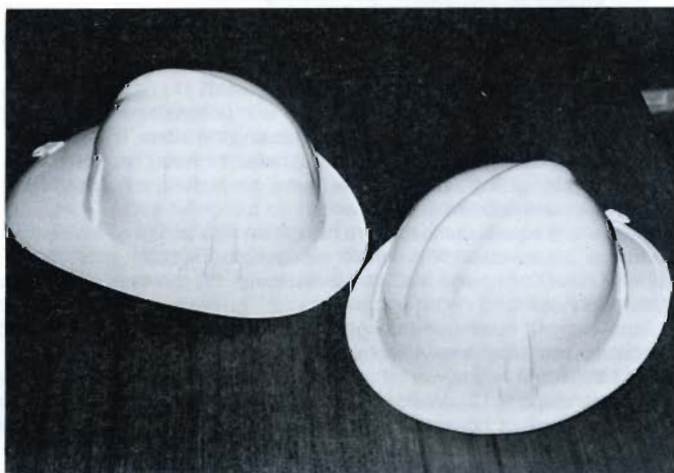
Country Fire Services, St. John Ambulance personnel and service clubs of Apex and Rotary spent the weekend following the floods in an extensive clean-up programme.

CONFUSION OVER HELMETS?

It has come to our attention that difficulties have been encountered by C.F.S. Brigades in obtaining their desired choice of helmet. To assist brigades in the future we make the following observations:-

1. Helmets must conform with Aust. Standard No. 1801.
2. That helmets give protection to the nape of the neck as well as the head.
3. That the helmets are white in colour.
4. That the helmet is supplied with a chin strap. Depicted below are two types of helmets which conform with the above requirements.

In the likelihood of C.F.S. Brigades ordering firemen's helmets from M.S.A. (Aust. Pty. Ltd.) they *will receive the "Top Guard"* helmets complete with elastic chin strap *unless they specifically request otherwise.*



MSA Topguard

MSA Streamline

TO: DISTRICT COUNCILS COUNTRY FIRE SERVICE BRIGADES

FIRE APPLIANCE SPECIFICATIONS

The Country Fire Services Board has prepared specifications for fire appliances for use in the Country Fire Service. The specifications fall into three categories:—

- Specification HA1982 (Heavy Fire Appliance)
- Specification MA1982 (Medium Fire Appliance)
- Specification LA1982 (Light Fire Appliance)

The Specifications cover the following appliances:

- (a) New body build-up on new cab/chassis
- (b) New body build-up on secondhand cab/chassis
- (c) Transfer of existing body to new cab/chassis
- (d) Transfer of existing appliances from one C.F.S. brigade to another.

It will be necessary for the approval of the C.F.S. Board to be obtained, in relation to qualification for subsidy **before** any contractual arrangements are entered into or vehicle purchased for use as a fire appliance.

Whilst the specifications are extremely comprehensive, it is fully realised by the C.F.S. Board that secondhand cab/chassis will continue to make up a good portion of the C.F.S. fire appliance fleet and to this extent many of the requirements contained within each specification are exempt at the discretion of brigade or Council.

LLOYD C. JOHNS,
Director, Country Fire Services

DISTRESS SIGNAL UNIT FOR C.A.B.A.

Does your Brigade require one?

The South Australian Country Fire Services Board have purchased a number of Distress Signal Units for compressed air breathing apparatus (C.A.B.A.).

Design features:

Size—127 mm x 83 mm x 39 mm.

Weight—312 gms.

Power—2 x 90 volt batteries (battery life 8-10 hrs)

Audible output—98 db measured at 1 metre.

Tune frequency—1.25 KHz to 20 KHz predominantly 4 KHz.

Pulse rate—approximately 100 per minute.

Operation—Push button operation with magnetically operated reset switch.

Maintenance—Change battery every 12 months.

Order Now—Limited Stock!

ORDERS ARE NOW BEING TAKEN FOR THE SUPPLY OF DISTRESS SIGNAL UNITS AT APPROXIMATE COST OF \$50.00 EACH. SHOULD YOUR CFS BRIGADE BE INTERESTED IN PURCHASE PLEASE CONTACT IMMEDIATELY CFS HEADQUARTERS R.O. DAVID BATTEN (REGION 3 OFFICER), TELEPHONE (08) 297 6788.

Footnote

This distress signal unit available for purchase has been subjected to the following tests:—

- (1) Placing unit in smoke/heat chamber at 120 degrees to 140 degrees C for one (1) hour and increasing humidity.
- (2) Drop test from two metres.
- (3) Complete submersion in two metres of water for eight (8) hours.
- (4) With signal operating in two metres of water for two (2) hours.
- (5) The unit is intrinsically safe.

C.F.S. LOOKING TO EQUITABLE BASIS FOR SUBSIDIES

The Country Fire Services Board is presently examining ways of funding, on an equitable basis, requests from local councils and C.F.S. brigades for subsidies for the purchase of new vehicles and equipment.

Board Chairman, Professor Peter Schwerdtfeger, reported that the recently announced State Government increase of 31 per cent in C.F.S. funding for 1983-84, was very pleasing.

The 31 per cent represented a monetary increase of \$919,000, giving the Service a total budget of \$3.7 million. Half the total will be met by the Government and remainder by the insurance industry.

Professor Schwerdtfeger said the Government announcement, which reflected its recognition of the importance of the service, had occurred at a time when a big increase had been noted in the number of applications from brigades and councils for 50 per cent subsidies for vehicles and equipment.

The Board had been encouraged that the allocation for subsidies to councils and brigades had now been clearly identified so as to separate this sum from headquarters/regional operational expenditure.

On the basis of the 50 per cent subsidising of councils and brigades, the amount available for this purpose in 1983-84 would still fall short of the potential claims of local government and C.F.S. brigades.

"Therefore, we are seeking constructive dialogue with councils and brigades to endeavour to achieve the most equitable way of funding their requests.

"If the 50 per cent subsidy is to be maintained, then it will only be possible to subsidise the most urgent needs on a priority basis, and the Government is aware of this situation," Professor Schwerdtfeger said.

He continued, "The Board is concerned that the needs of the local brigades be met as equitably as possible, but until there is a further formalising of the subsidy programme, there could still be misunderstandings.

"This is one of the major reasons why the C.F.S. Board has instituted the review by management consultants Arthur Young Services and the Public Service Board, and who will interact with councils and our Board to examine the adequacies of the present subsidy scheme and its ability to meet the current and future needs of the service.

"The subsidy programme is a very complex one over which the C.F.S. Board has no direct control, and we very much believe that local government has not only to be consulted but involved because the subsidies budget cannot continue to be open-ended," he said.

MEDIA RELEASE ISSUED 11th JULY 1983

New Research Body—aid to firefighters

Rural fire authorities throughout Australia could benefit in the future from the establishment in March of this year, of A National Centre for Fire Research". The new research centre, sponsored by the Chisholm Institute of Technology is based at the Institute's Caulfield Campus in Victoria.

The future, however of the National Centre for Rural Fire Research, is solely dependent on financial support provided by rural fire services of the Commonwealth. Requiring \$250,000 per annum to operate, the centre needs a basic annual funding of \$120,000 from the various rural firefighting organizations.

Heading the newly formed research group is Research Director Mr. David Packham. Widely known and recognised as a leading researcher in bush and forest fires and methods of suppression, Mr. Packham has been involved in fire research with the C.S.I.R.O. for over 20 years.

Manager of the National Centre is the former C.F.A. Assistant Chief Officer Mr. Chester Nevett, who has on his team several highly qualified and trained scientists and research people currently involved in the C.S.I.R.O. "Project Aquarius".

"Project Aquarius" will be completed in 12 to 18 months. The centre will then be able to devote its full time to research in various areas for the benefit of rural fire fighters.

Some projects being undertaken/planned are: window protection in buildings, with regard to fire, why some houses survived the severity of the Ash Wed II fires; the water flow rate required from tankers to extinguish fires at a greater rate than the rate of spread; long term research into heat emitted from bushfires, in order to provide more adequate protection for fire fighters.



Mr. David Packham, Research Director,
National Centre for Rural Fire Research.

Mr. Packham is the owner of the house pictured in the background. One of the few left standing after Ash Wednesday at Upper Beaconsfield, Victoria.

Mr. Packham is the owner of the house pictured above in the background. One of the few houses left standing after the Ash Wednesday fires at Upper Beaconsfield in fire-ravaged Victoria.

The mud brick house that beat the blaze is long, low and tucked into the hillside like a burrowing Echidna. It was specifically designed and built by David and wife Helen to resist fire. The house is built on a cement slab, has elongated eaves and a 5cm-thick "sandwich" roof of tin, fibreglass and wood. A gravity-fed tank had been installed to supply water during a power blackout. On Ash Wednesday a 20 metre-high wall of flame swept over the house, scorching timbers. David and Helen Packham and two guests — bushfire experts Messrs Charlie George and David Blakely of the Northern Forest Research Laboratory in Montana U.S.A., stayed inside, remained calm and doused licking flames with buckets filled from the hot tub. Outside, verandah posts glowed, the tractor was molten and gas cylinders shot huge shafts of flame skywards.

"It was like looking into a blast furnace," David recalled. He said his house was saved by luck, good design and the fact that they were on hand to fight the fire. David Packham claims that your home with "good housekeeping", is the safest place to be in a blaze. "If you're caught outside the radiation intensity can kill in seconds."

According to David Packham the prevention of future death and destruction by fire lies in simple fuel reduction programmes, involving the burn off each year of small proportions of ground fuel, thereby effectively reducing major bushfire risks without disrupting the ecology.

Acknowledgement is made for the above article to: "The Fire man" (C.F.A. journal), "The Herald" Newspaper, Melbourne and The New Idea; with special thanks to journalist Lynne O'Donnell, photographer Drew Fitzgibbon (The Herald), and journalist Jo Wiles (New Idea). Photograph reproduced courtesy The Herald; The Herald and Weekly Times.

C.F.S. Fire Fighting Drill Competitions

Region 5: Sunday, 5th June, Keith Oval, South East MILLICENT DOMINATES COMPS.

Millicent C.F.S. brigade won 6 of the 9 events and took home the special regional trophy for the best and most efficient appliance and crew.

The attendance of 194 competitors and 20 officials was a record for the region.

Bordertown, Keith, Naracoorte, Millicent, Nangwarry, Penola and Bray (Robe) C.F.S. brigades competed for the trophies; while the visitors events were contested by Eden Hills, Northfield, Morphet Vale, Aldinga Beach, Blackwood and Tea Tree Gully C.F.S. brigades.

The competitions were officially opened by the Member for Mallee, Mr Peter Lewis, who paid a tribute to the work of C.F.S. personnel.

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COMMUNICATIONS GENERALLY

by R.O. Trevor Conlon Communications

C.F.S. communications can be grouped into three categories:-

1. FIRE GROUND

VHF high band single frequency simplex is used on a fire ground for communication between fire appliances and their controlling officer. In addition to those mobile radios on the network, would be the local district base station; but that need not be the case in a major fire. A necessary part of this type of communication network is the concept of the forward control, from which point the controlling officer (or officers) directs the movement of the fire appliances within his sector and makes tactical decisions as to the method of approach to that fire. Under normal conditions, the local base carries out a listening role, standing by to relay messages to any appliance, which may find itself out of range of the forward control and provides a rear link from the forward control to the telephone network.

It is the latter base station role which also fits into the second category of C.F.S. communications.

2. FIRE GROUND TO CONTROL CENTRES

The second category of the communications provides communications out of the fire ground to the district base, the district control centre, and inter-communications between district control centres. As part of this overall plan is communication to the Regional Control Centre. In the past, communication has primarily been carried out on local VHF frequency from the fire ground to the local base, and telephone for inter-communication between district bases. Occasionally, State Channel 2 has been used for this function and with proper co-ordination and training will become more regular in the future. It is desirable that alternative types of communication be sought between District Control Centres and the Regional Control Centre to leave the VHF channels as clear as possible for fire ground use. The proposed UHF repeater system is one means of providing such an alternative, and could also be used under certain circumstances to forward controls.

3. INTER-REGION AND STATE WIDE

The third category of C.F.S. communications relates to communications from one region to another and to Adelaide for State wide co-ordination and access to specialist advice. The telephone or the UHF link network, or single side band are all possibilities for providing the third category of communication. However, each has drawbacks which affect its usefulness to provide any of the three categories of C.F.S. communications.

Telephone:-

Despite silent listings and special lines, telephone exchanges and systems become clogged during major fires.

UHF Radio:-

The UHF link network is yet to be established and will be several years before complete, (but should provide the most effective means of satisfying the third category of communications).

HF Single Side Band Radio:-

Single side band radio is at its worst on serious fire danger days and lacks reliability.

COMMENTS ON TYPES OF COMMUNICATIONS IN USE

Telephone

The use of telephone is subject to exchange jamming due to local traffic during major fires; the loss of circuits due to the fire causing damage; and is restricted to fixed points at which telephones are connected at the time. It should be noted however, that Telecom do offer a service to provide emergency facilities if requested when a fire occurs. This necessarily involves delays which means that the service is not available during the critical first hours of that fire.

In an effort to provide adequate and secure telephone facilities for fire fighting, Telecom are investigating an arrangement by which major control centres for emergency services may have at their disposal a priority phone with automatic switching

equipment which will ensure the availability of a line on which to make a call. Although this is an excellent idea, the call made will still rely upon the condition of the exchange into which it calls and assumes that the call is being made to an area which still have phone facilities available.

VHF Radio

VHF Simplex radio communications have proven to provide excellent fire fighting communications for fire ground work. The twenty frequencies currently allocated to C.F.S. are essential to cope with our needs on days when serious fires occur.

The Department of Communications have advised us that no further VHF frequencies are available for allocation to C.F.S. for fire fighting, in fact they would like to regain some of the frequencies which they had allocated to C.F.S. — a move which has been vigorously opposed by C.F.S. Headquarters. Problems have been experienced with communications due to poor communications practices and not so much lack of frequencies. It is valid to argue that more of the 20 frequencies should be available to each mobile, but effective use will depend on the users understanding operational networks.

There is a need for broader communications training of base station operators, control staff and fire fighters alike to ensure more effective use of those frequencies allocated to us.

UHF Radio

There is certain traffic currently being passed on VHF which can be transferred to another network, further reducing the load on the VHF frequencies.

This is the proposed UHF repeater network and the traffic to be transferred would be communications between control centres in districts and the Regional Control Centre. In addition, communications to major forward controls equipped with UHF equipment would further reduce VHF traffic and, in fact, improve overall communications and fire fighting co-ordination.

The UHF network would also be used on a day to day basis by C.F.S. Headquarters Regional Officers while working within their Region. During major fires, the Regional Officer would be in immediate contact with his district control centres and also have communications to selected other bodies involved in fire fighting, e.g. Woods and Forests in the South-East of disaster centres under the State Disaster Plan. (Where justification is shown, various main emergency service centres could have UHF equipment installed to provide their tie to the overall command network, or portable equipment provided at the time.)

The UHF equipment being installed will provide a valuable asset and fire fighting tool, and meet the needs of the second and third category of communications.

HF SSB Radio

The use of HF single side band radio has proved to be severely limited by the reliability of the medium, particularly on days of extreme fire conditions. Although it provides an excellent long range facility which cannot be matched by VHF, for medium and short range communications from Local Government areas in which C.F.S. Headquarters operates, SSB has shown to be unsatisfactory for our needs. For this reason, SSB will remain a long range and back-up facility, and the more reliable VHF and UHF communications will be developed further to provide adequate coverage of the areas within which our Regional Officers normally work.

Need for Regional Control Centre Facilities

Considerable time and effort has been spent on improving communications under the first category. This includes work on rationalization of VHF frequencies, operating procedures and call signs. (There is still much work to be done) Districts involved in the recent major fires have made comments which indicate that positive results have occurred because of this work.

The next phase of improvement relates to the establishment of better command practices and facilities, including Regional Control Centres to provide an overall co-ordination.

"AN ECONOMICAL PROPOSITION"

by R.O. David Batten (Region 3).

Smoke is always a nuisance to fire fighters, especially when acrid or dense. Throats and chest muscles become sore from excessive coughing and vomiting may sometimes occur. The eyeballs and lids become inflamed and temporary blindness may develop in extreme cases. Some relief to the throat and lungs may be obtained by seeking clearer air close to the ground or in pockets of relatively fresh air found even in dense smoke.

Smoke can be excluded by using respirators but their bulk soon becomes unbearable and they cause excessive sweating, restricted breathing and limitation of vision. The useful practice of breathing through a wet handkerchief can be extended by making up a cotton wool pad attached to a pliable aluminium plate supported on the face by an elastic strap. The eyes can be protected by wearing airtight goggles which may be prevented from fogging by the application of a demisting agent.

So wrote R.H. Luke and A.G. McArthur in their book *Bushfires in Australia*. An ever increasing number of C.F.S. Brigades are buying respirators, but is this money being spent wisely, I suspect brigades do not fully understand the full facts on respirators.

When considering the mechanism of the different types of filters, a distinction must be made between those which offer protection against toxic smoke, dust or fumes (particularly matter filters), and canisters which retain the gases:

1. RESPIRATORS AGAINST GASEOUS RESPIRATORY POISONS

This type of gaseous poisons can be expected to be found in any structural fire or an incident where chemicals are known to be involved. A respirator will offer little or no protection in these circumstances for a number of reasons.

- The oxygen level is unknown (see Table One).
- The gas or gases may be unknown and so is the concentration.
- Is the respirator capable of filtering out a gas.

With these sets of circumstances, the only type of equipment that will offer the firefighter the protection he/she requires is a compressed air breathing apparatus.

2. RESPIRATORS AGAINST TOXIC FUMES, SMOKE AND DUST. (Particularly matter filters)

This type of respirator filters solid or liquid particles, which in themselves will inflame the lungs, which leads to discomfort. Every fire fighter has experienced the sore eyes and coughing when fighting a fire, particularly the grass or bushfire. Although a respirator will greatly help in this area, there is still a number of factors which must be born in mind.

Prolonged exposure to carbon monoxide and carbon dioxide even in light concentration can lead to a lapse of mental alertness and muscular co-ordination followed by lack of judgement and depression (See Table Two). Although the respirator has removed the solid particles from the atmosphere it may still allow gaseous poisons through thus resulting in possible injury to the fire fighter.

Under hard working conditions the volume of air required increases (See Table Three) but as the filter becomes blocked the respirator becomes more effective and the protection offered improves. However, it increases the breathing resistance to a point which is unacceptable to the wearer.

The respirator is not designed for the Country Fire Services and has very limited use, there is a need for a filter which can be worn by fire fighters which is low cost, light and maintenance free.

"The Country Fire Services Board Technical Sub Committee will be looking into this area, but for the next bushfire season try a triangular bandage or a disposable dust mask, they will do the very same job as a respirator."

EFFECTS OF LACK OF OXYGEN

TABLE 1

PERCENTAGE OF O ₂ IN AIR	PHYSIOLOGICAL EFFECT OF O ₂
21%	NORMAL CONCENTRATION IN AIR
16%	RAPID BREATHING PULSE RATE INCREASED LOSS OF MUSCULAR CO-ORDINATION
14%	
12%	
10%	BREATHING LABOURED ABNORMAL FATIGUE
6%	NAUSEA AND VOMITING UNABLE TO MOVE FREELY LIABLE TO LOSE CONSCIOUSNESS
	CONVULSIVE MOVEMENTS GASPING BREATHING HEART ACTION AND BREATHING MAY CEASE

TABLE 2

PERCENTAGE OF CO ₂ IN AIR	PHYSIOLOGICAL EFFECT OF CO ₂
10	HYPERTENSION AND SHOCK SEVERE CIRCULATORY COLLAPSE DEPRESSED ACTIVITY OF BRAIN DEEP COMA — unconsciousness from which the victim cannot be roused. SPASTIC PARALYSIS — loss of voluntary control with spasms of muscles.
9	CONVULSIONS — involuntary un-coordinated contraction of muscles. IRRITATION OF NERVE CELLS. TREMORS — twitching or shaking.
8	PARANOID TENDENCIES — delusions of persecution and self importance.
7	EUPHORIA — abnormal elation HYPOMANIA — minor mental disturbances — ungovernable excitement.
6	HALLUCINATIONS — hearing voices, seeing things, like a walking dream CO ₂ BECOMES DANGEROUS TO THE BODY
5	30-60 MINUTES LETHAL CONCENTRATION REACHED
4	Change of mood or temperament DEPRESSION — lowering of spirits
3	DROWSINESS — (candle extinguished)
2	IRRITABILITY BLOOD PRESSURE BEGINS TO INCREASE
1	
0.5	MAXIMUM ACCEPTABLE CONCENTRATION
0	0.04 NORMAL CONTENT IN AIR

TABLE 3

	Lying	Sitting	Walking	Running	Running Up Stairs
Number of breaths per minute	14	18	23	24	40
Volume of air per breath (in litres)	0.35	0.4	1.4	1.7	2.6
Volume of air breathed per minute (in litres)	4.9	7.2	32	41	104

who's who at headquarters
NEW SUPERINTENDENT APPOINTED.



Tony Crichton, B.Sc., (For)
Superintendent, Research Division

The Country Fire Services Board has appointed Mr Tony P. Crichton as the new Superintendent of the Research Division.

A former Regional Officer responsible for Bush Protection and Prescription Burning Inquiries, Mr Crichton was appointed to the position of Acting Superintendent of the Research and Fire Prevention Department following the retirement of Superintendent Bill Green in 1982.

Mr Crichton was officially appointed Superintendent of the Research Division (formerly The Research and Fire Prevention Department) on Tuesday 26th April 1983.

He holds a Bachelor of Science Degree in Forestry and has until recently been deeply involved with the C.S.I.R.O. Project Aquarius.

Mr Crichton now heads a team of research and fire investigation officers.

Since the retirement of C.F.S. Deputy Director, Mr Peter Malpas, the Research Division has taken the Publicity and Promotions Department under its wing.



MICHAEL KNOWLES
Messenger/Handyman

Michael educated St. Michaels College, was previously employed by the Public Building Department before joining the C.F.S. H.Q. team in October 1981.

In addition to his duties as a messenger and handyman, Mike is the official courier for C.F.S. Headquarters. He also maintains the Headquarters fleet of vehicles and handles the stock cards and inventory on equipment and clothing.

His driving duties involve country trips, affording him the opportunity to visit and meet C.F.S. Brigade and District Council personnel.

Sports interests evolve round playing football and 'A' grade cricket, and a passion for fishing.

Unfortunately we at C.F.S. H.Q. have to suffer the stories of the ones that *didn't* get away.



DES PACKER
Control Centre Operator

Des who is currently the Brigade Captain of the Athelstone C.F.S. joined the service in 1962.

He completed a C.F.S. Stage 4 Brigade Officers school in 1982, and is the proud recipient of the Australian National Medal and a C.F.S. Life Membership Certificate.

Before joining the Country Fire Services H.Q. operations team Des was formerly involved in the building industry as a Building Estimator and Contracts Administrator.

Married with 3 children, his sporting interests include football, cricket, boating and water skiing.



KEVIN W. MAY
R.O. Officer, Region 6

R.O. Peter Ferris (pictured above—left), former Region 6 officer for Eyre Peninsula has been appointed to C.F.S. Headquarters Research Division. The new Region 6, Regional Officer Mr Kevin May (right) has already taken up his new office. Photograph reproduced courtesy The Port Lincoln Times.

A member of the Aldinga Beach C.F.S. for 8 years, Fire Control Officer for the District Council of Willunga for 3 years and Brigade Captain for 4 years, Kevin, before his recruitment to the ranks of C.F.S. Headquarters staff as the new Regional Officer for Region 6, worked for a Fire Protection company for 5 years.

His duties involved covering C.F.S. brigades, councils and special hazards in the State.

He has also attended as an instructor C.F.S. Training Schools in Regions 1, 4 and 5.

Kevin's wife Cheryell and the 3 boys, Damian (10), Breandan (8) and Ryan (5) are delighted with their "new home" on Eyre Peninsula and look forward to meeting and making new friends in Region 6.

Kevin replaces R.O. Peter Ferris as R.O. for Region 6. Peter has been appointed to a position in the H.Q. Research Division.

Message from Aldinga Beach C.F.S.

The Aldinga Beach C.F.S. regret the leaving of two of our best known and well liked members. I refer to Kevin and Cheryell May.

Both Kevin and Cheryell will be greatly missed by all members. Kevin is at present the longest serving member of this unit. His untiring efforts and expertise in all fields have helped boost the standard of this brigade.

continued page 17

KEVIN MAY continued . . .

Both Kevin and Cheryell have worked hard on Regional Schools, not only in Region 1, but also in other regions.

Kevin has been Brigade Captain for four years. Cheryell was the first registered female officer in the history of C.F.S., and she is also one of the first female firefighting crew in South Australia.

Kevin and Cheryell, the Aldinga Beach C.F.S. thanks you both for your efforts and wish you every success for the future.

Edgar Bolton,
Public Relations Officer,
Aldinga Beach C.F.S.



REGIONAL OFFICER MICHAEL GENT
FIRE PREVENTION

Regional Officer Michael Gent was appointed Officer in Charge of the C.F.S. H/Q Fire Prevention Department in April of this year, replacing Mr. Hutchins who resigned to take up a position with the Commonwealth Government.

Mike Gent said to our then Deputy Director, Mr. Peter Malpas on the day of his retirement. "It's an empty feeling to be leaving the Fire Service". Mike was reflecting back on his own fire service career in the United Kingdom which he had left after 18 years of service and had to say goodbye to so many old friends before moving to Australia with his family.

"I certainly did not think I could be involved with the Fire Service again. I did not know I would be involved in fire prevention which has been my absorbing interest for so long. It is my belief no-one can be an effective fire prevention officer without it being a hobby as well as a job. The opportunity to head my own F.P. Department and to be a part of the Fire Service again over-rode other opportunities at the time and I was most pleased to join the C.F.S.

"I soon met the men and to my surprise the ladies crews at the C.F.S. Firefighting Drill Competitions.

"Good on you girls! You opened my eyes and I thought I had seen everything in the Fire Service.

"The competitions gave my wife Judy the chance to meet the Volunteers and she appreciated the acceptance and friendly attitude shown. As she said, 'The Fire Service seems to be a world wide 'club' it's nice to be back!'"

Michael began his fire service career as a fireman in the Dorset Fire Brigade, U.K. in 1963. His duties involved road accidents and forestry and property fires. He was promoted as Station Officer to the Westbourne Station. After further studies at the Home Office Fire Services College, on fire prevention courses, he was transferred to the Fire Prevention Department. As a legally authorised Fire Inspector for the Fire Precaution and other Acts of Parliament he inspected all types of premises for fire precautions and means of escape in case of fire. Michael also passed the Graduate Institute of Fire Engineers Examination in the same year as the U.K. Station Officers Examination. Leaving the Dorset Brigade late in 1981 he moved to Australia in February 1982.

Mike and his wife Judy have two daughters; Alison aged 17 years who is busy studying for her Matriculation and Ruth aged 14 who will soon travel to Sydney to represent South Australia in the Australian Trampoline Championships.

For recreation Michael enjoys sailing. He instructed youngsters on a voluntary basis at a sailing school in Dorset, U.K.

"I have enjoyed sail-boarding here . . . the waters are so much warmer when you fall off!" quipped Mike.

Mike Gent has also heard about the sharks . . . so, if you see a one legged fire prevention officer in your district, say, G'Day Mike!

Basic Fire Prevention

by R.O. Mike Gent, Fire Prevention.

The science of making sure occupants of any building are able to escape from fire, is the purpose of basic fire prevention.

This "fire prevention" tag has stuck in fire departments world wide, yet the prevention of buildings burning in a fire is more the Building Inspector's department and responsibility since he is concerned with structural precautions.

Because of our experience as to how buildings behave in fire we have liaised with Building Inspectors to produce standards in buildings to prevent fire spread; have installed fire systems to give an early warning and alarm; sprinklers to control fires and smoke and fire doors/walls to contain fire. In addition there are emergency lighting systems, automotive venting, shutters and dampers, pressurised staircases, automotive flooding by extinguishing agents and many other means of controlling fire.

Yet when one talks of fire prevention most people think "fire extinguishers". So let's explore the world of fire prevention from the point of view of "Protection of people from fire in buildings". This will naturally involve prevention of fire.

Persons seeing a fire in a building or hearing a fire alarm should be able to turn their back on the fire and walk away from it initially to an exit, to open air and out to the highway. They should not have to use any mechanical means of escape.

The above paragraph is the solid basis of all means of escape from fire. To elaborate I will ask a question my old divisional officer in charge of fire prevention would ask.

"Could your old gran with her walking stick get out of that building OK in the event of fire?"

What he was really saying was, "Your means of escape from fire **must not** involve vertical ladders, sliding down ropes, jumping into handheld sheets kicking out a panel to the next premises or . . . dropping the last 3 metres!"

One occupier of a building said he will get out by dropping a rope to the ground if he was trapped by fire in the upper floor. In a single storey hospital recently I was told the patients could smash the window and get out if trapped by fire in their room; however the poor chap in the next room had a plaster cast from the waist down so how he was expected to hop up, smash the window with a chair and then negotiate a metre high window sill . . . I'm not sure.

Even in one's home fire could occur without our awareness. A person could be in a deep sleep and be unaware until, too late of a fire spreading its deadly fumes throughout the house.

I hope you are now aware of what can happen if we don't take the proper precautions and what has happened so often in the past. In the following issues of "The Volunteer" I hope to give readers an insight into the principles of "fire prevention."

If you have any questions on fire prevention please contact me at Headquarters. The Fire Prevention Department is at your disposal for advice on fire prevention and means of escape from fire in buildings. The Research Department will of course give advice on aspects of "Bush Fire Prevention" and "Safety of buildings from bushfires."

Should any C.F.S. personnel be asked to give advice please refer the person to the Headquarters Department concerned, an inspection of the property can then be arranged.

NINTH AUSTRALIAN NATIONAL CONFERENCE ON FIRE 1983

To be officially opened by the Governor-General of Australia: His Excellency the Right Honourable Sir Ninian Stephen A.K., G.C.M.G., G.C.V.O., K.B.E., K.St.J.

LIFE SAFETY PROTECTION AND ESCAPE FROM FIRE

At the A.J.C. CENTRE, RANDWICK, N.S.W. 2031

THE PROGRAMME

The scope of the papers to be presented has been specifically designed to achieve maximum results from a searching examination of three segments, all of them centred around the theme "Life Safety, Protection and Escape from Fire".

The first segment is to cover bush and forest fires, their causes and effects, the lessons learnt and the measures which must be taken.

The second and third segments will advance the study through the rural to the semi-urban and on to high-density residential, high-rise office, and special industrial buildings.

This programme is of positive and vital interest to the whole Australian Community, and has particular significance for those who have an established interest in Fire Protection.

WEDNESDAY — 14th SEPTEMBER, 1983

— *Bushfires: Forest Fires: Rural/Semi-Urban*

THURSDAY — 15th SEPTEMBER, 1983

— *Specific Risks in Buildings by Classification.*

Factors Relating to Escape and Human Behaviour.

FRIDAY — 16th SEPTEMBER, 1983

— *General Risks, Hazards and Causes of Building Fires and their Effects on Life Safety.*

Egress and Human Behaviour.

The speakers who have been assembled to deliver papers at this Conference represent the top levels of expertise from around the world. You will hear from Jake Pauls of the National Research Council of Canada; Bernard Levin from the Centre of Fire Research, Washington D.C., U.S.A.; Professor and Chairman John L. Bryan, Fire Protection Engineering, University of Maryland, U.S.A.; Jonathan Sime, Research Fellow, School of Architecture, Portsmouth Polytechnic, England; accompanied by a talented and professional team of Australians.

Full 3-Day Conference all-inclusive Registration Fee.

Includes morning and afternoon teas, lunches,

Evening of 14th September — **Conference Opening Function,**

Official Closing — Evening Function on 16th September,

Bound Set of Conference Papers

\$220.00

Charges for additional guests, who are NOT registered for Conference attendance:

Opening Function (evening of

14th September 1983)

per additional guest \$ 20.00

Official Closing Function

(evening of 16th September 1983)

per additional

guest \$ 30.00

Registration for One-Day attendance;

\$ 65.00

includes lunch, morning/afternoon teas,

Conference Papers.

Bookings are still open.

For more information please contact Mr. G. Cuzner, telephone (08) 298 2592 or Mr. N. Cooke, (08) 297 6788.

'Firebirds' help fire crews

A group of 10 Adelaide ladies, who formed themselves into the Firebird Charitable Fund Committee five years ago, have directed their latest endeavour to helping equip two South-Eastern Country Fire Services crews with warm protective coats.

Naracoorte and Millicent C.F.S. brigades now have the warmth and protection of five new "bunker coats" each, made from fire resistant material, quilt lined and complete with safety reflective stripes — thanks to the generosity of 10 Adelaide ladies calling themselves the Firebird Charitable Fund Committee.

The year-round responsibilities of C.F.S. brigades often meant call-outs in winter to domestic and building fires, road accidents and other emergencies. In the colder areas of the State there is a need for warm protective clothing and the presentation of the jackets by the Firebirds was most practical.

The Committee President, Mrs. Maureen Lister, of Leabrook on presenting a cheque for \$2100 to cover the purchase of the 10 bunker coats, said that during the past five years the Committee had raised \$25,000 for charity.



Pictured above, Naracoorte C.F.S. captain Brian Ball and crew members presented with their new coats by C.F.S. Regional Officer Mr. Murray Sherwell (Region 5) of Nuriootpa. Mr. Ball said that the coats were most appreciated and would be put to good use. He also paid tribute to R.O. Sherwell for his tireless efforts in firefighting training and in providing a better service to brigades throughout the South East.

Photograph reproduced courtesy The Naracoorte Herald.

National Medal Presentation "Volunteer's service acknowledged".

Members of the Country Fire Services Brigades have been acknowledged for their long years of volunteer service by being presented with the Australian National Medal, at C.F.S. Headquarters, on Friday evening, 24th June 1983.

Fifty eight C.F.S. volunteer members stepped forward to receive the honoured Australian National Medal for diligent and continuous service with the C.F.S.

C.F.S. Board Chairman, Professor Peter Schwerdtfeger in making the presentations, commended the volunteers on their sterling service, which often called on them to face disastrous fires, such as those of Ash Wednesday II.

The Professor highlighted the monetary saving to the public and the Government of South Australia made, by virtue of the volunteer core of dedicated people on a stand by situation at very little cost. "Which in fact is very little cost to the Government of S.A.," he said.



LONGEST SERVING MEMBER

Mr Albert Thomas Eats, of Myponga C.F.S. received the medal and clasp for 32 years service. Mr Eats pictured above (centre), the longest serving member at the presentation is being congratulated by C.F.S. Board Chairman, Professor Peter Schwerdtfeger and former C.F.S. director, Mr Fred Kerr.

Closely following Mr Eats service record, also with 32 years service was Messrs Raymond Kenneth Obst, Greenock C.F.S. and Robert Jordan Martin, Parawa C.F.S., with 31 years continuous C.F.S. service.



OWEN C.F.S. MEMBERS RECEIVE MEDAL

Pictured above, recipients of the Australian National Medal from the Owen C.F.S. Messrs Fredrick Lindsay McPharlin (right) and Ralph Fredrick Langley (second from left) proudly display their medals with Professor Peter Schwerdtfeger, Chairman, C.F.S. Board and Mr Lloyd C. Johns, C.F.S. Director.

Centenary Medal Recipients



A special award of the British Fire Service Centenary Medal was made to seven C.F.S. members, immediately following the Australian National Medal presentation ceremony. The centenary medal was in recognition of exceptional services to the Country Fire Services.

Pictured above with C.F.S. Board Chairman, Professor Peter Schwerdtfeger (centre) are from left, recipients of the British Fire Service Centenary Medal — Messrs Peter Malpas (C.F.S. Deputy Director), Peter Swann (Kapunda C.F.S.), Ronald Schubert (Nuriootpa C.F.S.), Lloyd C. Johns (C.F.S. Director), George Polomka (R.O., Region 4, Jamestown), John Sharp (H.Q. Reserve) and Fred Kerr (former C.F.S. Director).

Message to: Recipients of the Australian National Medal, presented on Friday, 24th June, 1983.

Photographs were taken of C.F.S. brigade members (individually and in groups) who received their Australian National Medal that night. If you would like a record of this special occasion, a black and white photograph of your medal presentation can be purchased through Country Fire Services Headquarters.

Print sizes 13mm x 18mm (5 x 7) cost \$3.50 each.

20mm x 25mm (10 x 8) cost \$6.00 each.

When you order your photograph(s) please supply your name and address along with requirements to: P. Mills, c/- S.A. Country Fire Services, P.O. Box 312, Goodwood 5034.

The cost will be invoiced, and the invoice enclosed with the print(s) will be posted to the address on your order.

S.A. Great Bushfire Lottery

1st Prize Winners



A family of four from Butler Tanks on Eyre Peninsula have won the first prize in the S.A. Great Bushfire Lottery — a Toyota Corolla worth \$8,500, donated by Toyota dealers of S.A. Pictured above receiving the keys to the Toyota, from the then C.F.S. Deputy Director, Peter Malpas is the new owner/driver, Mrs Beverley Flegert. Mrs Flegert's mother, Mrs Barbara Slipper of Adelaide, pictured in back seat with Donna (2) and Belinda Flegert (aged 3 weeks), bought the winning ticket for her children. Looking on is Stephen Flegert (in background) with Geoff Phillips Toyota district representative Doug Tame (second from right) and Geoff Phillips. The car was presented to the Flegert family at Geoff Phillips Toyota, Port Lincoln.

C.F.S. Fire Fighting Drill Competitions

Region 1: Sunday, 19th June, Symonds Reserve, Aldinga Beach.

Blackwood C.F.S. teams won the right to compete at the State finals, following their win at the Region 1 competitions. Closely contesting the "home" competition winners was Eden Hills, with Nuriootpa C.F.S. taking most of the visitors events awards.



The trophies (pictured above), supplied by Aldinga Beach C.F.S., the host brigade, are quite unique. Made by Phillip and Martin Bamford of Aldinga Beach, each trophy has the C.F.S. logo set into a piece of polished Kuitpo pine, cut from trees burnt in the Ash Wednesday II bushfires.

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Apologies to our readers: Due to the lack of space in this issue, the comprehensive report on The 1983 C.F.S. Regional Fire Fighting Drill Competitions, will now appear in the Summer issue — The Volunteer Annual, incorporating the C.F.S. Manual 1983, December 1983 . . . Editor.

ALDGEATE C.F.S.— Reported the need for a third fire truck to ward off any direct fire threat to the town when their present two units are attending fires in other areas. N.B. During Ash Wed II Aldgate's two fire units were rendered unserviceable because of mechanical faults (i.e. clutch broke on one vehicle, handbrake failed on the other).

ASHBORNE C.F.S.— Old 1961 International 4 wheel drive unit has been replaced by a new 4 wheel drive, 2 tonne chev, through the generosity of Rotary. A \$9,000 vehicle donation came from the Bushfire Relief fund by Rotary members around Australia, New Zealand, England and the United States.

AUBURN C.F.S.— Will install another phone in the fire shed separate to the fire alarm phone to provide an enquiry service during fire hazard days. Members employed at Taylor Wines presented a certificate to express their appreciation to employers Messrs. John and Bill Taylor for supporting the local brigade. The certificate was issued by the South Australian Government and C.F.S. in recognition of the community spirit displayed by employers who allow employees as members of the C.F.S. time off to attend call outs.

AVENUE C.F.S.— Fire truck (pictured below) commissioned in Dec 1982 was actively involved in the Ash Wed II in the South East. The unit an ex Army ACCO 1600, 4 x 4 fire tender was rebuilt by the Lucindale D/C workshop staff, cost being approx \$25,000. Features include 18 hp twin cylinder Briggs and Stratton motor, coupled to a GAAM 2000 pump and 600 gallon tank. Money for the fire shed was raised and built by 44 volunteer members and 34 associates with the site donated by an associate member.

BASKET RANGE C.F.S.— First and only Life Member Councillor Doug Watson received his life membership badge at a recent brigade units commissioning and fundraising dinner. Cr. Watson joined the Norton Summit C.F.S. in 1955, transferred to Basket Range when formed in 1968 and has since served as East Torrens council representative. With his support Council agreed to finance the new \$27,000 ACCO 760 fire unit. C.F.S. volunteers put 183 man-hours into fitting out the unit for \$2000. Features include a 400 gallon tank, Darley fire pump, two rubber hoses, one percolating hose, fire extinguisher, towing cable, chain saw and knapsacks. The unit can substitute as an emergency vehicle at road accidents. The dinner raised a grand total of \$850.

BEACHPORT C.F.S.— Are to receive new breathing apparatus thanks to a \$1100 cheque donated by the Rivoli Bay Lions Club, raised from a beach regatta and a \$100 from Lions members John Carey and Roy Mitchell; winnings from a canoe race.

BIRDWOOD C.F.S.— Were presented \$200 the proceeds of fundraising programmes conducted by student classes of the Birdwood school to provide an even better service to the town. Birdwood C.F.S. captain Kelvin Brand intimated that the money may be used to buy a portable pump for a new trailer unit members are building up, which will feature rescue equipment for all types of accidents.

BORDERTOWN C.F.S.— Member Mr. Andrew Lawson received a Young Citizen Award in the Australia Day Honours for outstanding contributions to the community. Mr. Lawson's award was based on his work with the local C.F.S., S.E.S. and for youth leadership.

BRIDGEWATER C.F.S.— Received a cheque for \$2089. The money was raised by the Bridgewater Primary School Children from a lap-a-thon held at the school in April. The money will be used to buy some safety equipment for the new International 4 x 4 cab chassis the brigade is building up, from money received from roadside collections and unsolicited donations received since the Ash Wed II disaster, and support from their women's auxiliary opportunity shop that raised \$9100 over last 12 months. The new 4 wheel drive appliance will feature a five speed gearbox, water carrying capacity of 1600 litres, separate high and low pressure pumps, complete crew protection, breathing apparatus, ample ancillary fire fighting equipment. Monetary support has come not only from local sources but from people in the metropolitan area unconnected with the district.

BRUKUNGA C.F.S.— Plans to build a new two-vehicle (15m x 11m) fire shed with a radio room, store, assembly room and amenities, and is looking to buy a four wheel drive unit to support its current 1974 2 wheel drive Bedford.

CAMBRAI C.F.S.— Were presented recently with a cheque for \$900 from the Ridley Lions Club.

CAREY GULLY C.F.S.— Which had its fire unit gutted in Ash Wed II received \$15,000 from the Stirling Lions Club, Apex and Mt. Lofty Rotary Club. The money was raised by service clubs in the southern part of Sydney. "Members in Sydney had heard of the plight and of the wonderful job the C.F.S. had done in the fires and wanted to help." The Stirling District C.F.S. also received \$11,900. Local hills service clubs collected over \$11,500 in donations from tourists who visited hills areas on the weekend following the Ash Wed II fires. The money will go a long way towards replacing the base radio the Stirling D/C lost when St. Michael's was burnt down.

CHERRY GARDENS C.F.S.— Report they are heavily into training for the coming season. Subjects include physics and chemistry of combustion, map reading, fire growth and development, radio procedure, fire fighting, pumps and hose drill, use of knap sack sprays and other techniques. Members meet on the second Monday of each month. Sessions comprise of a 1 hour lecture or film or 1½ hours of practical training.

CLARE C.F.S.— With Blyth and Burra crews were paid a tribute for their continued training and service at a dinner hosted by the Clare D/C. The volunteers attended frequent night shifts — about 50 call outs in the week after Ash Wed II to check spot fires and continuous burnings.

CLEVE C.F.S.— Raised \$10,000 towards the cost of their new \$91,000 fire appliance (a price of \$19,000 was incorrectly recorded in The Volunteer Volume 16 Page 30).

COMAUM C.F.S.— Member Mr. W.J. (Bill) Clayfield was presented with Life Membership in recognition of his years of service as maintenance officer, caretaker and dedicated crew member.

ECHUNGA C.F.S.— Major extensions to the fire station involved doubling the size of the building. Local members supported by district residents, tradesmen, businesses and builder Mr. Joe Kavanagh re built the station for a labour cost of \$50 and materials cost of \$10,000. The extensions have provided a sound-proof radio room, spacious kitchen area, toilets and the vehicle area has been enlarged to provide room for a scout vehicle, a new addition to the existing two units. At the commissioning attended by over 200 people a Life Membership badge presentation was made to the oldest Echunga C.F.S. members Messrs. Pat and Mike Kavanagh; members for more than 50 years. Mr. Arthur Edmonds a stalwart of many years standing was the other recipient of a Life Membership. Chevrons for continuous service from two to twenty four years were presented to Messrs. John Dougherty, Don de Angelo, Phil Evans, Peter Hammond, Brian Van Holten, Phil Roberts, Bob Sadleir, Geoff Smith, Greg Smith, Dean Tischer and Eric Plane. The Glen Bold Angus Stud perpetual trophy for "Cadet of The Year" was awarded to Nicholas Tucker with Tim Ward receiving "The Most Improved Person" trophy. The Echunga Cadets and Junior Fire persons formed a guard of honour. Earlier in the evening they demonstrated their fire fighting training by putting out a simulated oil tanker fire.

EDEN HILLS C.F.S.— Fire station is to be upgraded at a cost of \$69,000 by the State Government. The current old galvanized iron shed will be replaced by a two bay brick station, equipped with a training/lecture area, facilities to maintain equip, kitchen area etc. Work will be carried out by employing local jobless, creating 14 jobs over a 12 week period, as part of the national job creation scheme.

ELLISON C.F.S.— Will shortly be training their 16 volunteer members in the use of foam equipment to control fires involving flammable liquids, thanks to a \$150 cheque from Shell distributors, T.M. Rowan & Co., enabling the brigade to purchase the equipment needed.

EVANSTON GARDENS C.F.S.— Have been given a \$1500 grant from Munno Para Council. The money will be used to extend the fire station and build a lecture and meeting room with social area and kitchen. This will enable C.F.S. volunteers to be given on-site instruction in fire fighting techniques and provide a much needed rest area for use in summer when members are on emergency stand-by.

GEORGETOWN C.F.S.— Have installed the latest Mark 3 telephone fire alarm system, reported to be the first such system in the Northern areas. The system incorporates 8 fire phones and can sound 6 house phones by code ringing or when the siren is activated. Ross Sargent, Chairman, Georgetown C.F.S. summed up the benefits as being, "a faster response to the fire call especially for a night emergency".

GOOLWA/CURRENCY CREEK and HINDMARSH ISLAND C.F.S.— Will have a new 7 tonne water tanker this summer to help in their fire fighting. The tanker once converted will hold 1200 gallons, almost twice as much as their present carrier. It will also mean the C.F.S. units newly-fitted pumps will be used to maximum efficiency. The truck was donated by Mr. and Mrs. Monty Newell recently retired from the sand and metal business.

A highlight of their recent annual dinner was the presentation of certificates of 20 years of active service to the C.F.S., to Messrs. Brian Dugmac and Ron Skewes and the handing over of a \$10,000 cheque by Chairman of Port Elliot and Goolwa D/C Mr. Roy Galpin, raised by C.F.S. burning off blocks at Goolwa. The money will be used to purchase C.F.S. equipment.

GUMERACHA C.F.S.— Have been taken under the wing of the new Gumeracha Community Association (a former trader's association). The new association has already provided \$1200 towards each unit for Cuddlee Creek and Forreton. Gumeracha also raised a considerable amount through door knocking in the district. Gumeracha suffered badly in Ash Wed II losing a unit at Cudlee Creek and other equipment. A "blitz" type vehicle at Forreton is undergoing the expensive process of replacement hopefully by next season and a diesel is proposed for Cudlee Creek.

HAHNDORF C.F.S.— Are conducting a building appeal among the local community and business houses to raise funds for a \$50,000 redevelopment of their fire station, involving extensive renovations and additions to the existing buildings. These include a separate radio-operations room, meeting room, kitchen and store and an enlargement of the unit bays to house a much needed third fire unit.

Tribute was paid to foundation member Mr. George Peterson on the eve of his retirement for 34 years active service with the brigade and as deputy district officer for Mt. Barker district. A C.F.S. life member since 1969 and Hahndorf C.F.S. life member since 1979. Mr. Peterson has continuously held one or more of the major brigade positions as well as being delegate to many committees.

HAPPY VALLEY C.F.S.— Recently received a \$500 cheque from the Reynella Kiwanis.

IRON BANK — UPPER STURT C.F.S.— Member Mr. Robert Evans was the recipient of the Stirling Councils Civic Award — "for his magnificent record of community service involving membership of numerous sporting clubs, welfare, educational organizations, C.F.S. and Apex." In the sports of cricket, table tennis, netball and football, Mr. Evans has either been a player, committee man, association delegate, umpire coach or life member — some times all of these.

KALANGADOO C.F.S.— Has received \$650 to buy a new multi-channel two-way radio unit.

LIONS DISTRICT 201— Has distributed \$25,500 (part of proceeds from the Lions International Bushfire appeal), to areas affected by fire and flood this year. Cuddlee Creek, Carey Gully and Tea Tree Gully C.F.S. have each received \$4000 with \$10,500 to South East C.F.S. units; \$2500 to Millbrook School and \$500 to the Barossa Nursing Home damaged by flooding earlier this year.

LITTLEHAMPTON C.F.S.— Was formed in less than five months since the first public meeting; a fire unit acquired and land donated for the C.F.S. brigade. The unit an ex McLaren Vale 1968 AB1600 International four wheel drive is ideal for both bush and building fires with a water capacity of 500 gallons. Funds raised around the district amounted to \$10,630 just \$370 short of the specially reduced cost of the vehicle. A further \$8000 will be required to outfit the unit. Planning approval has been sought through the Mount Barker District Council to build a fire station on land generously donated by the brigades' committee president Mr. Keith Nitschke. Brigade Captain and F.C.O. Bruce King reported that there are more than enough volunteers for a day time crew, so training has begun on a regular basis.

LINCOLN C.F.S.— As the result of twelve of its members burning more than 200 blocks throughout the city during the summer the brigade received a \$3075 cheque from the Port Lincoln City Council as payment.

The money will be used to rebuild their Land Cruiser fire unit and purchase two new pumps for the land cruiser and the larger unit.

MT. BENSON C.F.S.— ACCO 510 fire unit will be built up to C.F.S. specifications for a maximum cost of \$15,500. The unit will have a pay load of 4½ ton and is fitted with 20" wheels to give higher ground clearance.

MT. COMPASS & YUNDI C.F.S.— Were presented cheques to the value of \$2350 by the students of Mount Compass Area School. The money was raised by the students' Charities Day held in March.

MT. PLEASANT C.F.S.— Received \$500 raised by the S.A. Field and Game Society following a recent target shoot/meeting at Cromer.

MT. TORRENS C.F.S.— In November 1982 took delivery of a new \$39,000 unit with a 500 gallon water capacity. The unit can carry eight crew in enclosed cabins. The cost of \$16,000 was met by the local community, \$19,500 by C.F.S. Headquarters subsidy and the balance by the Gumeracha District Council.

MACCLESFIELD C.F.S.— Received a boost to their funds towards a much needed new fire unit when proceeds of a recent "Lions Club of Meadows Ski Resort Carnival" were presented to the brigade. The fund raiser involving hundreds of unpaid volunteers attracted over 3000 people. The goal being to upgrade the present fire force consisting of an ancient 1954 Dodge which is in danger of collapse due to rust, a vintage 1946 Bedford truck and a later 1975 International 4 x 4 unit.

Smokey The Koala made a special appearance at the Carnival to entertain the children, arriving in the Rescue 1 helicopter. Smokey can testify to the condition of the Bedford, when after riding around the oval precariously clutching the rear handrail with rotting floor boards underneath — on a lighting safely on "terra firma" it was found he had taken a little something as a memento of his ride—rust! all down his furry greyback and a wood splinter in his paw . . . Editor.

MEADOWS C.F.S.— Have taken delivery of a new \$19,000 mobile command vehicle courtesy of Mitsubishi Motors Australia Ltd., Cheviot Australia Pty. Ltd., Rotary International District 952, Barry Caddle Crash Repairs, Warren Wilson Auto Electrics and Lucy Agencies Pty. Ltd. The vehicle a Pajero Mitsubishi 4 wheel drive fitted with 2 V.H.F., one U.H.F., one hand radio unit and map desk, in the event of a fire can be taken by the Fire Supervisor or Deputy to a commanding point to direct operations. Twelve other C.F.S. bases in the area will benefit from the acquisition. A project is now underway to convert the Holden one tonner fire unit into solely an emergency unit fully equipped with first-aid and initial life support equipment.

MENINGIE C.F.S.— New extensions to the C.F.S. station were opened by C.F.S. Director L.C. Johns. Two fire appliances commissioned and service certificates presented to four C.F.S. members, at a recent official ceremony. R.O. Murray Sherwell commissioned the 4 x 4 Bedford and 4 x 4 Toyota. Brigade President Mr. Rob Woodcock made special mention of the public's generous support, support from local business houses, Lions Pied Pipers and grants from C.F.S. H/Q and the Meningie District Council; represented by Mr. Sandy McFarlane.



Pictured above C.F.S. brigade captain Bob Tanner beside the newly commissioned fire appliances, with fire station in background. The 4 x 4 Toyota used mainly as a quick attack vehicle for grass fires has since been further adapted for building fires. Both vehicles were built by the volunteer members and local towns people.

MENZIES C.F.S.— Since its inception in 1971 has steadily worked towards a safer more protective environment. Realising the value of the early protection provided by both Kingscote and Wisanger fire units in 1975 Menzies purchased a Thames tray top truck and with voluntary labour converted it into an efficient fire unit. The unit served efficiently until 1981 when it was replaced with an International D1610. The build up of the new unit together with a new shed for housing the truck was achieved largely through voluntary effort and financial support from a door knock. Both the new unit and premises were commissioned in March 1983 by the Mayor Cr. Judith Morris.

MILLICENT C.F.S.— Goal of purchasing a new command vehicle is now that much closer thanks to a \$2500 cheque presented to the brigade by the Millicent High School students, part proceeds of the schools annual walkathon. It is reported that the Toyota command vehicle that ended its useful days during the Ash Wed II fires in the S.E., will be replaced with a 4-wheel drive Ford F100 with a 351 HP V8 engine. The new vehicle will be used both as a command vehicle for the district and would tow the Emergency Rescue Unit when C.F.S. attends a road accident.

A new \$65,000 4 wheel drive 6 cylinder diesel Isuzu has been ordered. Body work on the cab chassis will be done at Naracoorte and should be "fire ready" for Millicent C.F.S., before the fire season. The Millicent community club members raised \$1000 which will pay for a fire radio on the fire truck.

MYLOR C.F.S.— Have paid tribute to stalwarts Messrs Bert Ewing (brigade captain) and Fred Ewing (president), with a presentation of life membership for 32 years of continual C.F.S. service each. Mr. Fred Groom was awarded his 10 year service certificate.

Stirling Council Chairman Mr. Lloyd Leah paid tribute to the outstanding contributions of these men and pointed out that the total years service given by the Ewing family had been a remarkable 132 years service.

Over the period of Ash Wed II the Mylor fire station became "home" for 10 days, for crews on the ready to "go" when needed.

The building built 26 years ago once ideal for the one unit brigade must now accommodate 2 vehicles. The vehicles must be moved outside when meetings or training nights are held. "Now showing its age the shed (station) has weathered two (2) Ash Wednesday fires; is cold, cramped, there are big cracks in the walls and the shed is in urgent need of replacement," reports brigade president Fred Ewing.

NAIRNE C.F.S.— Has been generously supported by George Chapman Pty. Ltd. for over 36 years, so it was most appropriate for the company's service to be officially acknowledged with a recent presentation of a prestigious "Certificate of Appreciation" from the State Government and the C.F.S.

Chapman's Company Manager and active Nairne C.F.S. member Mr. John Harrison proudly accepted the certificate from the then C.F.S. Deputy Director Peter Malpas. Nairne C.F.S. members (Chapman employees) are Roger Gooch, Jeff McKenny, brigade secretary and Lyall Strout, brigade captain. Mr. Harrison's father, past manager of Chapmans, called the first public meeting to form the brigade; was a member of the First Nairne E.F.S. crew formed on 25th January 1946 and encouraged the company's employees to attend fires without loss of pay. The Harrison involvement continues today — with employees being allowed time off to attend fires and the company workshop services the fire units and maintains equipment of the Nairne C.F.S.

NANGWARRY C.F.S.— Are seeking donations from local businesses for the purchase of a new 4 wheel drive fire unit. A cheque for \$1000 was presented by Mr. R. Beddison of Beddison Woodware Manufacture to brigade captain R. Hodgson. Brigade secretary Mr. D. McKay advises that the unit has raised \$1500 to date; they are aiming for \$5000.

NARACOORTE C.F.S. — S.E.S. Units— Gave the equivalent of 100 days of voluntary service. During the past calendar year the unit gave 2400 man hours including more than 1400 hours for fire calls and training and a staggering 1000 hours for attending vehicle accidents.

The Feb 16th fires accounted for 532 service hours both at Callendale and during containment and mopping-up in the Penola area. Moves are a foot to look at the replacement of the ageing Dodge two-wheel drive tanker.

NORTON SUMMIT-ASHTON C.F.S.— Has taken delivery of a new Toyota Land Cruiser cab chassis to be built up as a quick pursuit fire unit well suited to the steep terrain. The generosity of people made the unit's purchase possible.

NURIOOTPA C.F.S.— New fire station extensions were opened on Sunday July 3rd 1983 by Mr. Vic Mayger a former secretary and original member of the Nuriootpa Volunteer Fire Brigade formed in 1942 and certificates of appreciation were presented to local employees of C.F.S. members. Nuriootpa C.F.S. member Mr John Atze received the British Fire Service Medal for 20 years service and Ken Bowden was presented with a bar for 15 years C.F.S. service.

Angaston D/C have contributed \$40,000 towards the cost of the building extensions and have indicated they would soon be involved with extensions of the Angaston C.F.S. station at a cost of \$17,000.

It is councils intension to further assist Nuriootpa C.F.S. later this year with the purchase of a new fire truck costing approx \$80,000.

OAKBANK-BALHANNAH C.F.S.— Have the honour of being one of the few brigades in the State to have a heavy duty short wheel base fire fighting unit, which saw action in the Ash Wed II fires after the brigade took delivery just two days prior. The unit was built up primarily to fight scrub and grass fires although it is more than capable of handling a blaze in the township. The cab and chassis bought from the Strathalbyn Council was built up by local engineer Roger Windle. Designed to carry up to 2½ tonnes, the unit has a 200 gallon tank (900 litres), new hoses and reels, high pressure pumps. Units all up cost was \$14,000. It compliments the brigades 1981 International 4 x 4, with Darley Pump and water capacity of 2200 litres.

OWEN C.F.S.— Member Fred McPharlin has received a certificate for 15 years for continuous service with the C.F.S.

A belated farewell tribute is paid to Ralph and Marge Langley for Ralph's 17 years of valued C.F.S. service. Ralph Langley has had 14 years as a senior fireman, 10 years as Vice President and assisted the unit as a truck driver and radio operator. Owen's loss is Stanbury's gain where, although in retirement Ralph and Marge Langley plan to continue their C.F.S. involvement.

PORT BROUGHTON D/C— Will take delivery of a new Mercedes Benz 4 wheel drive cab chassis built up as an appliance for \$62,466 before the start of this season. The brigades existing 1963 Bedford fire truck with a capacity of 2200 litres will be retained as a back-up unit. Council also proposes to install radio equipment valued at about \$8000 and is investigating the possibility of building a bigger shed for the new unit.

QUORN C.F.S.— Committee member Mr. Frank Flower former Mayor of the D/C of Kanyaka-Quorn was honoured in the Australia Day List. Mr. Flower aged 70 years received a Medal of the Order of Australia (OAM) for service to local government and the community. He was a councillor for 21 years, a grazier and committee member of the Quorn C.F.S., life member of the Quorn football club, cricket club and Quorn show society. Mr. Frank Flower A.O.M. the C.F.S. salutes you . . . Editor.

RHYNIE C.F.S.— A little over a week after attending the Ash Wed II fires at Clare the brigade had their newly built \$11,500 fire truck commissioned before 250 district residents, Saddleworth C.F.S. and the Riverland S.E.S. The Rhynie C.F.S. and the acquisition of the truck had been accomplished in the last 12 months with total support from the Riverton Chamber of Commerce, Tarlee Rural Youth, Basketball club, Riverton C.F.S., the community and from the sale of the Rhynie Hall. C.F.S. president Mr. Brian Kemp received the vehicle keys from C.F.S. Director Mr. Lloyd Johns.

The commissioning of the unit was the culmination of many months of hard work by a small community to form its own C.F.S. A three ton International D1310 4 wheel drive truck was built up by volunteers using the old pump from the original Riverton fire truck, with a 300 gallon tank, hose reel and hand lines.

SALISBURY C.F.S.— Has celebrated 40 years service to the community. It is reported their record of saving property, life and well being of the area is estimated at many millions of dollars. Outstanding leadership over the past 12 years has come from Group Captain Frank Dunn. Among those recipients of service awards received at the recent annual presentation award night were Messrs Dudley King for over 40 years service, R.O. Brian Menadue (Region 2) awarded life membership and brothers Alf and Winston Bryant who have served 20 years with the brigade. Winston Bryant is also a C.F.S. H/Q Control Centre operator. Tribute was also paid to the Salisbury's 14 strong ladies brigade, by former Salisbury Mayor and brigade president Mr. Harry Bowey. The ladies are regular contenders at the annual C.F.S. fire fighting drill competitions. The ladies brigade won the C Grade Hose Drill State Championships last year.

SELLICKS C.F.S.— Manned a trading table at the March polling booth, conducted a raffle, displayed their fire unit, equipment, literature and invited the public to meet the brigade members. Over \$500 was collected towards the 1989 Fire Truck Replacement Fund.

STIRLING COUNCILS— New \$26,500 radio base will be installed at the Mount Lofty Training Centre Stirling East. Fire Supervisor Mr. Geoff Knight said, "In the event of power black outs and telephone lines cut the new base will still keep the lines of communication open. The new equipment includes a 100ft tower and an automatic battery back up should power be lost." Several local organizations have given very generous donations towards the cost of the new base, including a contribution of \$11,900 from Stirling Service Clubs and \$3700 from Mt. Lofty Scouts raised from a monster auction. Story next issue . . .

STREAKY BAY— New C.F.S./S.E.S. Complex was officially opened Sunday 17th April 1983 and the new Streaky Bay C.F.S. firefighting unit commissioned by the C.F.S. Director. The building costing some \$160,000 comprises of training/lecture room and amenities rooms and large parking areas. President of the Streaky Bay C.F.S. Mr. Mal Hannaford said the local community had raised \$23,584 towards the cost of the unit. Acknowledgement was made by the Steaky Bay D/C Chairman Mr. Peter Dodgson specifically to local identity Mr. Charlie Giles for his support.

VICTOR HARBOR, PORT ELLIOT & GOOLWA C.F.S.— Received cheques totalling \$910, the proceeds of two recent Razzamatazz concerts featuring local talent organized by local clubs.

WAIKERIE C.F.S.— Has taken delivery of a new \$11,400 Ford F100 4 wheel drive fire unit which replaces their smaller Nissan 4 wheel drive unit.

WAITPINGA C.F.S.— Unit has received \$256 from the Rotary Bushfire Relief Committee to repair equipment damaged during the Ash Wed II fires. Mr. Bill Rufus, District Governor, nominee for Rotary District 952 advised that monies had also been allocated to Carey Gulley, Ashbourne, Tea Tree Gully, Meadows and Macclesfield.

WILLUNGA C.F.S.— Have taken delivery of a new International Cab chassis. The vehicle is at the body builders at present being fitted out with the latest high pressure pumping equipment.

Regional Competitions continued . . .

Region 2 & 3: Sunday, 26th June, Truro Oval, Barossa Valley

The combined Region 2 and 3 competitions attracted a good turnout, with 292 C.F.S. uniformed men on parade with 15 fire appliances.

Nuriootpa C.F.S. were outright winners of the Region 2 competitions and were judged the Best All Round Regional Brigade.

Region 3 was represented by Yorketown C.F.S. who entered all events and won all the Region 3 trophies.

The Truro C.F.S. hosted the competitions which were officially opened by the Member for Kavel, Mr Roger Goldsworthy, M.P.



For the Truro C.F.S. cadets, it was their first ever competitions, and were delighted to receive a special encouragement medal each, from R.O. Brian Menadue. Pictured above the Truro C.F.S. cadets proudly display their medals with Messrs Roger Goldsworthy, M.P. (centre), R.O. Brian Menadue with Peter Malpas Deputy Director (far right), Lloyd Johns C.F.S. Director (left) and Truro brigade members.

Truro Captain Jim Miller congratulated the cadets for their dedication and acknowledged the efforts of Lt. Bert Dinnage, Peter Clarke and Peter Swann who helped train the cadets for the competitions.

Region 4: Sunday, 10th July, Jamestown Memorial Oval

Clare C.F.S. teams set the pace at the Region 4 competitions, and went on to win the special regional trophy.

The competitions were hosted by Jamestown C.F.S. in association with the Corporation of Jamestown and the District Council. Competition liaison officer was brigade captain Mick Hancock.

Mr Martin Cameron, M.L.C., officially opened the competitions before 110 C.F.S. members on parade. The Jamestown C.F.S. new small fire appliance was commissioned by Acting C.F.S. Deputy Director Mr Tony Keay. Ten and twenty year service certificates were then presented to volunteer fire fighters by R.O. George Polomka of Jamestown.

Regional Competitions continued ...

Region 7: Sunday, 24th July, Barmera Oval

Waikerie C.F.S. team's skill won the brigade 8 of the 9 events and placed them second in the ninth, earning them the special regional trophy for the Best All Round Brigade. For the 15th consecutive year the Waikerie team won the A Grade Hose and Pump Drill event, for the Peter Arnold M.P. Shield. The team this year, comprised of Messrs Bill Marschall (Captain), P. Neilson, B. Rogers, J. Segneri and G. Ward.

More than 170 volunteers from the Riverland, Yorke Peninsula, Adelaide Hills and Barossa Valley competed.

Region 6: Sunday, 7th August, Cummins Showgrounds

Buckleboo C.F.S. won two major awards — for the Best All Round Brigade they were presented the Eyre Peninsula Regional Fire Fighting Association Shield, and as the Best and Most Efficient Brigade received the Finsbury Shield.

More than 300 C.F.S. members and supporters attended.

Mr Reg Robinson, president of the Lincoln District Fire Fighting Association gave the official welcome and Mr John Hayman, chairman, Lincoln District Council officially opened the competitions, before 92 C.F.S. men on parade.



The winning Buckleboo Brigade teams — left to right, back row: Team 1, J. Baldock, G. Baldock, L. Smith (Captain teams 1 and 2); R. Leinert and S. Williams: Front row: Team 2, N. Leinert, F. Woolford, P. Larwood and G. Woolford. Photograph reproduced courtesy The Port Lincoln Times.

STOP PRESS

BLACKWOOD — CHAMPIONS 1983

C.F.S. Fire Fighting State Championships, Hackham, 21st August

The Blackwood C.F.S. team won the S.A. Government Cup and Pennant, for A Grade Hose and Pump Drill; Adelaide Hills F.F.A. Shield for A Grade Pump Drill; and Peter Swann Trophy for One Man Ladder Drill-winner Malcolm Merrit of Blackwood. Blackwood also won the two challenge events: Rex Brinkworth Challenge Shield for C.F.S. v I.F.S. A Grade Pump Drill and The Wormald International (Aust) Shield and Industrial Fire Service cheque for C.F.S. v I.F.S. Challenge Shield event.

The Best and Most Efficient C.F.S. Appliance and crew for 1983 was awarded to the Waikerie C.F.S. The Waikerie ladies team won the C Grade Dry Hose Drill, and the men came 2nd in the B Grade Dry Hose Drill.

Nuriootpa were placed 2nd in A Grade Hose and Pump Drill; Alarm Race and One Man Hose Drill — Graham Rohlach of Nuriootpa.

Yorke town Captain Les Butler came first in One Man Hose Drill and Yorke town II team won the Alarm Race.

Eden Hills won B Grade Dry Hose Drill, Clare were runners up in A Grade Pump Drill, and Morphett Vale runners up in C Grade Dry Hose Drill.

The Four Man "Wet" Ladder Drill was won by Evanston Gardens, second place was Naracoorte. One Man Ladder Drill second place getter was Geoff Brown of Aldinga Beach C.F.S.

Full report next issue ...

Brigades please note: Photographs of competitors in Region and Visitors events at the 1983 C.F.S. Fire Fighting Drill Competitions, together with shots of winning brigades at the State Championship will appear in next issue ...

Best & Most Efficient Appliance & Crew WINNERS: — WAIKERIE C.F.S.



A fully equipped \$19,500 Toyota four wheel drive land cruiser/command vehicle has been awarded to Waikerie C.F.S. as "The Best and Most Efficient C.F.S. Appliance and Crew" for 1983.

The presentation was made by Mr Warren Darley, Manager S.A. & N.T. Otis Elevator Co. Pty. Ltd., at the C.F.S. State Fire Fighting Drill Championships, held at Hackham on Sunday 21st August 1983.

Judging of brigades who nominated for the award was based on a criteria of points gained at the respective C.F.S. Regional Fire Fighting Drill Competitions; an inspection of the brigade appliance(s), station and a practical drill exercise using standard equipment.

Major sponsors of the prize were: Commercial Motor Vehicles who donated half the cost of the chassis; Otis Elevator Company gave over \$12,000 towards the building of the body work and equipment; Stillwell Ford Pty. Ltd. donated the high pressure Darley Pump and the bodywork was built by Carey Gully Engineering, who donated some of their costs.

Features of the Toyota four wheel drive land cruiser CGE4 design command and control vehicle are: a 1 1/4" A.G.E. pump, 100 gallon capacity water tank, HP hose reel, rotary beacon, electronic siren, safety sides, 1—VHF Phillips 92 series radio (fitted), 3 lengths of 1 1/2 canvas hose, 1-shut off fog branch and 2 knapsacks.

Nuriootpa C.F.S. were runners up being presented with a 6 channel portable radio "Tomaphone" as their prize.

SPECIAL FUND AND FOUNDATION

For C.F.S. Volunteers

The C.F.S. has decided to establish a \$20,000 Special Fund from which up to \$1,000 can be made available to meet the immediate needs of any family where the volunteer firefighter is killed or dies as the result of injuries sustained while on duty.

C.F.S. Director Mr. Lloyd Johns said the Special Fund had been set up from the \$140,000 received in direct donations made to Headquarters following the Ash Wednesday II fires February 1983.

The \$20,000 would be invested in perpetuity and the interest accrued, used to provide payments to widows and dependants of volunteers who paid the supreme sacrifice while helping to protect lives and property.

The S.A. Great Lottery held recently to raise funds for the C.F.S. Volunteer "Training and Research Foundation", has raised \$107,000.

The income from the money invested will be used to finance grants under the Foundation, to assist the volunteers in their training for their most valuable and worthwhile role in helping to protect approximately 90% of South Australia from bushfires and other emergencies.

The 10 incentive prizes for C.F.S. Brigades selling the most tickets in the S.A. Great Lottery went to; the two top brigades, Hahndorf and Burnside who each received a mini computer. Salisbury and Mt. Torrens each received a 55cm colour TV set and Athelstone, Greenhill, Evanston Gardens, Yongala, Gumeracha and Morphett Vale C.F.S. brigades each received 34cm color TV sets.