

Get Water Ready: tanks, pumps and sprinklers



Feedback Survey Q7 - Please provide details of the most informative parts of the webinar

1	All of it.
2	Practical advice.
3	Excellent coverage of tanks, sprayers and effectiveness of sprinklers. The questions were excellent, really relevant and very well answered. This is probably the best information I have ever received on this subject. Thank you
4	Limited effectiveness of roof sprinklers, will look into possibility of finding 10-15metre head to set up a gravity feed system/ clearing up better around existing poly tanks (the few that survived - amazing that a few did!), effective sprinklers/ protection around pumps (maintaining ventilation), very informative- our slab was poured last Friday - house is going to be two storey? Thanks again.
5	Answering question before the presentation on water pressure sprays etc pretty much turned the whole thing into Q&A with lots of tracking over similar stuff.
6	Information about pump protection strategies
7	Protecting the fire pump and the optimal storage water tanks
8	It was all informative, but especially the evidence-based info that helped set context-relevant priorities and practical actions.
9	Excellent information and well presented
10	Information about materials to protect pumps and water supply
11	Warnings about what has been shown to not work in real fires very useful. Warnings about ember dangers and pointing out spots householders may not think about. Comments about the large amount of water needed and the need to not waste it before the fire front arrives. Warnings about how much time needs to be taken after the fire has passed and the dangers still needing addressing then. Thank you for this webinar; I hope it will remain up until my husband can see it. I have made copious notes, but feel he should see it too. Is the first webinar still available? If so, how can we access it as we missed it?
12	The comparison of typical set up of pump and tank etc vs the better set up. Picture/photo illustration are good. Presenter is knowledgeable
13	It was all very good information. I found the types of water pumps and how they performed in the extreme conditions very informative. Also the different types of sprinkler heads and their placement was great information.

14	Requirements for running effective sprinkling systems (especially 15m for gravity feed)
15	Specific information with which to make decisions e.g. high impact sprinkler system around the house which I had not considered previously.
16	Clear concise factual information
17	As I am new to the are I learned a lot from the entire webinar not just one section
18	Having been a volunteer since 18 I have seen action in Ash Wednesday, Dandenongs Fires , Otway Ranges, Sydney on several tours of duty, Alpine fires, North East fires, Black Saturday Bunyip and Corryong. Each fire was unique as to how it developed and performed. Spray systems, pumps tanks hoses I have worked with and on, have seen successful saves and disasters, witnessed ember attack like a hail storm and watched hoses destroyed in seconds. During the Corryong fires we phone apped, calculated an approximate FDI in excess of 500 was experienced at midnight at Corryong where temps over 42C, gale force winds and humidity at 4% forced us to shelter under water sprays to stay alive, houses were blown apart by wind driven tornado fires in front of us. Diesel pumps and concrete tanks worked as embers destroyed polly, plastic both from top down and burst at the bottom, above ground polly melted in ember storms, 38mm canvas hoses off tankers don't percolate water their rubber lined and don't tolerate big embers or short grass fire, 3/4 rubber fire hose was better but not enough volume for defending well, Impact sprays in reverse are quicker to rotate but misting sprays provided better coverage in winds, we witnessed PVC cladding melt from heated water driven by fire winds and excessive heat. But most of all Survival is possible to the well prepared and experienced person.
19	Where specific examples and photos to illustrate explanations were provided
20	Protecting pumps was especially helpful The slides demonstrating this topic were great
21	Info on pumps . Knowing that plastic lined tanks stand up well in a bushfire scenario.
22	How to protect Poly Pipe. How to setup best sprinkler system
23	The discussion focused on petrol vs diesel pumps.
24	Really concise valuable information. Justin really knows a great deal on this topic.
25	Simple straight forward and clear commentary. No "fluffy stuff" just facts.
26	Highlighting the difference in petrol and diesel pumps and why diesel pumps are better. The need to screen fire pumps from heat and embers.
27	Use of electric pumps
28	Type of pump. Fittings materials that are necessary. Security of water supplies.
29	Presentation was excellent, should have been completed before questions.

30	What tanks and pumps have best chance of performing through an event
31	Sprinkler efficiency on a roof, plastic exposure and it's protection from fire. Fuel and what to expect on an extreme fire day.
32	All of it! Specifically highlighted some incorrect planned actions and equipment which is part of my fire plan.
33	Advice re pumps (I hadn't thought of electric) and how to help prevent hoses from melting. Also, good to know that Rhino tank liner is unlikely to melt below the water line.
34	The details given were very good, and specific points were very well explored.
35	Protecting pumps and electric pumps
36	Type, application, positioning and effectiveness of sprinklers. Hose connection of pump to tank with exhaust wrap and reflective covering, pump performance in high temperature situations. Use of heat resistant materials to shield between exhaust and petrol tank/carby, diameter and material of supply pipes to pump and sprinkler systems.
37	Practical information that's of real help.
38	Information on not what to do was as interesting as the positive information regarding tanks and sprinklers systems. I will review using wooden post for standpipes for garden hoses etc. We will also consider an in-ground concrete water tank.
39	Detailed info re fire pumps and their protection
40	Answers to questions by Justin were superb. The presentation was a good update for us. Specific responses to types of impact sprayers particularly useful.
41	Just listening to Justin Leonard and his wealth of knowledge and experience, he can answer every question
42	Question and answer Info on reliable water supply. Our pump system will not be as reliable as we thought.
43	Getting greater understanding of pumps pros cons
44	Describing how to set up a fire resistant water storage/pump/sprinkler system.
45	Tips to help prepare equipment already in place such as polypipe plastic attachments, the roof information has changed our plans now, the other risks we face with the use of our fire pumps on fuel
46	Discussion around different pump types and operational issues/risks.
47	This week's webinar was much easier to relate to, there were lots of interesting points and ideas and it was easy to understand and good examples of how to apply in real life.
48	I particularly liked the real life examples given by the host.
49	You still need to do your homework, every property is different.

50	All was very informative, excellent information
51	The practicality of the information.
52	Factors affecting operation of defense systems
53	The information on the effectiveness of sprinkler systems, how best to design these, the amount of water necessary and how best to select and install a pump.
54	Hard to say as each part was pertinent to our situation. When the session finished we started to draw up areas that needed action, they will be prioritized and we will try to make improvements to our systems that we did not think were as inadequate as they apparently are. Was surprised at comments regarding the gels as these had been touted as very successful - had also seen them used with fire fighting vehicles but they hadn't dried out!
55	The continued emphasis on embers and their influence on problems with fire suppression. I have always relied on petrol pumps but the reasoning round electric alternatives is something to consider. Also the protection of pump motors from embers and radiant heat has given me food for thought.
56	Justin's knowledge
57	Low usefulness of roof sprinklers, given that roofs of Australian houses are generally fire resistant.
58	Sprinkler systems and pumps
59	Sprinklers and tanks
60	1.That my house is indefensible unless I do an almost total rebuild. 2.Leave early. 3. Only hobbit-like underground houses should be permitted to be constructed in bushfire prone areas! ☹
61	There was a heap of good information on various aspects of pumps, tanks and sprinklers.
62	Type of rainwater tank Type of pump Plumbing details, specifically depth to bury poly pipe at least 10cm below ground
63	Electric pump for water supply
64	In general, the depth of Justin's knowledge and ability to communicate the range of variables in a fire. Personally, I found the information weighing up benefits v's challenges of pump systems to be really insightful. Rather than simply suggest one design over another, the knowledge shared empowers individuals to decide what best suits them.
65	All of the information was very useful. The insights on combustion engine pump failures during bushfires was particularly helpful.
66	Pump types and associated limitations, points of failure etc.
67	All of it.

68	The examples of pump set ups, sprinklers etc were helpful - and their pros and cons. There was a lot of information that would help us assess our existing set ups and make changes to improve them. Or if someone was setting up a new system, they'd have learnt ways to improve the reliability of that set up. It would also help them avoid some of the pitfalls from the start that you don't realize until too late. Justin gives really practical advice - sensible, practical and I learnt lots tonight. I find the photos he provided very useful - but was keen to see more.
69	Probably the detailed stuff about keeping a petrol pump going but there were little gems dotted throughout!
70	Both speakers are experts in their subjects and provided much food for thought
71	Incredibly useful: - ineffective nature of rooftop sprinklers/drips over ground mounted impact sprinkler system - covering ceramic/exhaust pipe lagging with reflective foil coating - ceramic/concrete buffer around petrol pump to impede radiant heat exposure - concrete segmentation panels between pump elements - intensive ember behaviour on fire pump/enclosures - electric pump advantages (for off grid systems supported by diesel generators in our instance) - not storing wood under a water tank (just kidding, that slide made me laugh)
72	Those regarding setting up pressurized sprinkler systems. Particularly interested gravity fed.
73	Justin's knowledge is the key and the succinct and calm way he deals with every question. The comparison of water systems via components was a great way of breaking down a complicated and technical topic.
74	All of it!
75	Discussion of protecting the water pump. The resilience of steel tanks (thank goodness after the amount of money paid!)
76	I don't have a tank or sprinkler system and not likely to get one. Have not listened to the previous webinar but this is an excellent reminder that I must be preparing for the coming fire season. It is also very interesting for my general understanding. Thank you.
77	The actions one might take that does not work. Feels very daunting
78	All of Dr Justin Leonard's details in every aspect. I would have liked even more detail on best practice, after the highlighting the flaws or things to be aware of and mitigate against. This topic could be done over two sessions for even more detail. It was great
79	Detailed practical information. No BS.
80	I missed the first half hour but out of the rest of it I found the alternative use of electric pumps and the ways of protecting plastic piping with coatings as the most informative.
81	Information on pumps, sprinklers
82	Possible failures of equipment or systems to be aware of !
83	Work out what you are trying to protect when you are designing your system
84	Most systems seem to fail in extremes

85	The content of tonight's discussions has brought our attention to the possible failures in the equipment that we already have. We have been intending to make improvements to our fight fighting response and this has given us some valuable information about what not to do and where to now seek improvements.
86	Pump information especially about the electric pumps
87	It was all great - particularly info about performance under fire conditions . The detailed pictures of the components in the presentation slides were particularly helpful - it's hard to work out which sprinkler heads etc and our local supply store doesn't have much knowledge. I screen-shot most of these. I'm really happy to learn about the impact sprinklers.
88	As always, Justin's insights are practical and invaluable!
89	I have done some research on this specific topic already, so it was good to confirm what I had concluded. I appreciate the logical makeup of the session's structure.
90	The information regarding the best pump to use and how to protect it during a fire
91	Comparing pumps
92	Having been through the black summer fires. My sprinkler system etc was put to the test and glad to say we all survived but the only thing we lost was our fencing and a shed that wasn't protected with a sprinkler
93	It gave enough of an overview without leaving you wondering what in particular should I be buying. I like that there was also a lot of 'do not do this'.
94	Fireproofing pump. Pump fuel management.
95	What type of pumps piping sprinkler system
96	Great and relevant information exceptionally well delivered
97	Brilliant, clear and informative presentation. Lots of good tips relating to pipe, tank and sprinkler materials, with evidence based examples. Justin is a wonderful presenter. Very knowledgeable.
98	pumps/ sprinkler - although still leaves a lot for us to research which may not be always reliable. good to get some specific sources to then research.
99	Inlet /suction hose requirements and protection. Pump enclosure protection / venting
100	Discussion on using metal pipes with metal fittings or if not then wrapping them in exhaust tape and aluminum foil
101	Water sprays specific examples
102	I found the information regarding pumps and sprinkler systems very useful.
103	Pump choices and protection
104	Practical info and clear presentation

105	That sprinklers are not required on roofs
106	Makes me realize we cannot defend our property currently
107	Pictures of suitable material, systems and burn examples