



GREEN  
CANYON  
VENTURES

*Scientific solutions for life*

*Presentation*

*2024*





# FS-01

GREEN CANYON VENTURES is an American company that promotes investments in the environment. We have developed the only Fire Suppressant on the market: **FS-01**.

FS-01 is not a fire retardant.

Patented

**VIDEO PRESENTATION**

<https://www.youtube.com/watch?v=AYZll6VT0JE>



# WILDFIRES

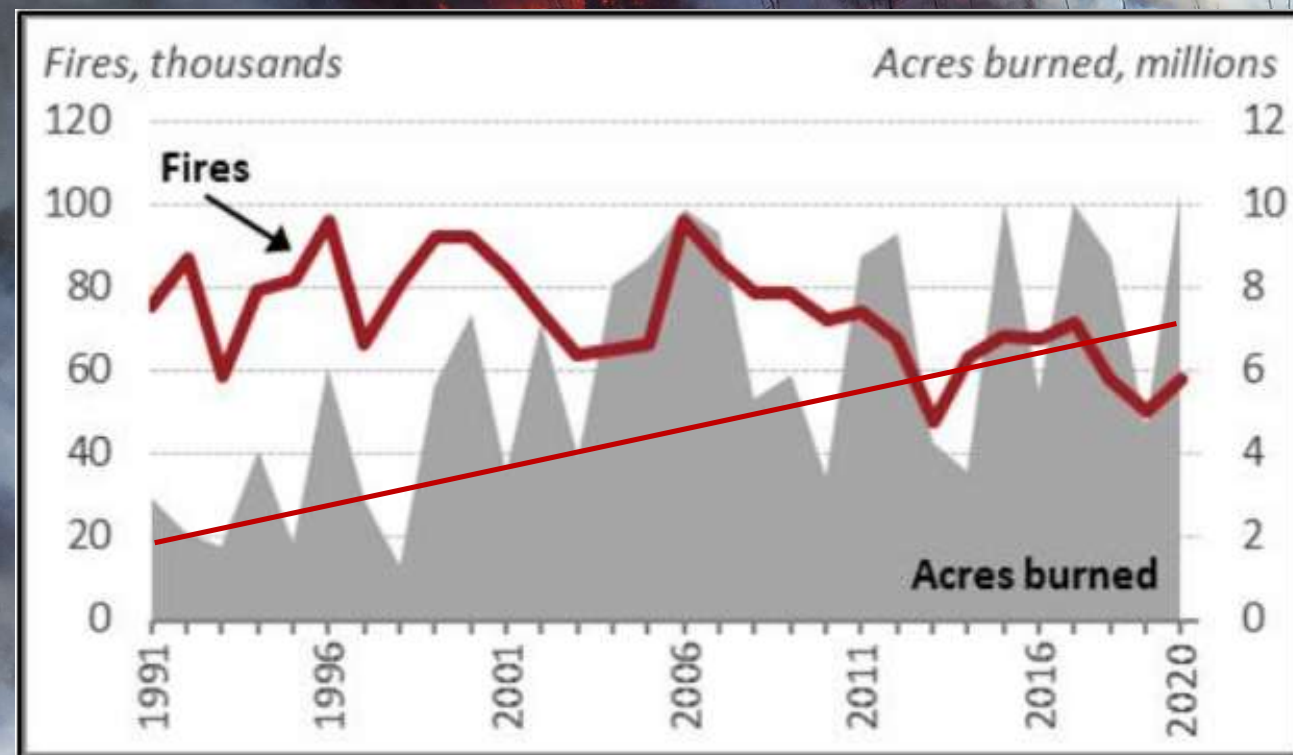
Wildfires are one of the greatest challenges we currently face. These fires are devastating, and cost billions of dollars in property damage, business loss, and firefighting resources as well as human lives. In addition, these fires destroy our natural resources.

Wildfires are responsible for 5% - 20% of global man-made CO<sub>2</sub> emissions.

The current products used to combat them (fire retardants) are toxic and dangerous to humans, animals, and the environment.

From 2010-2020 there have been an average of 62,693 wildfires each year.

Annual wildfires and acres burned 1991-2020

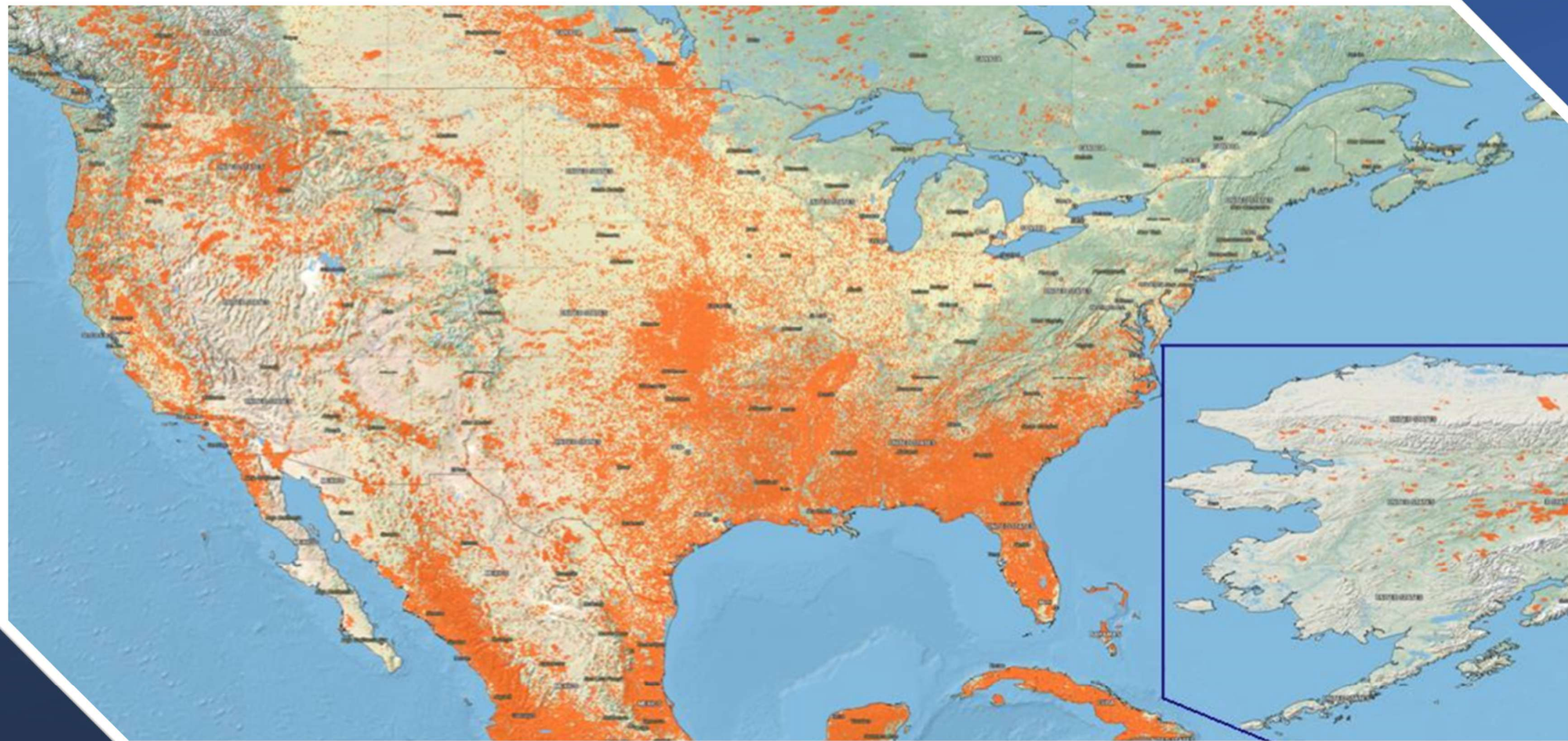


Source: National Interagency Fire Center





*The map below shows wildfires in the United States from 2010 to 2020.  
The map was created using images from NASA's MODIS satellite.  
<http://firms.modaps.eosdis.nasa.gov/firemap/>*





# ECONOMIC EFFECTS



## BUILDINGS DESTROYED

2016 – 4,312

2017 – 12,306

2018 – 25,790

2019 – 963

2020 – 17,663

## TOTAL ECONOMIC IMPACT

2016 – \$347.8 Billion

2017 – \$348 Billion

2018 – \$148.5 Billion

2019 – \$459.8 Billion

2020 – \$130 - \$150 Billion

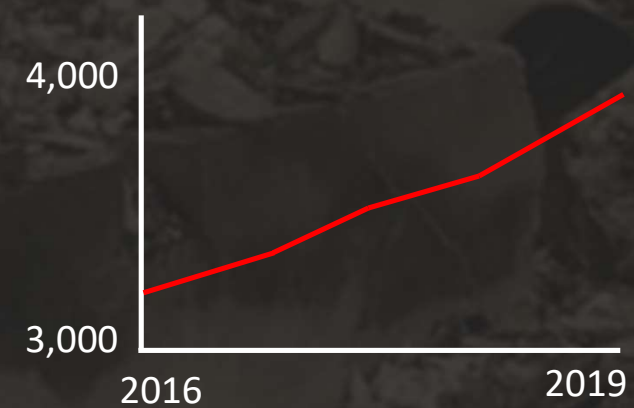
Over 4.5 million buildings are at high to extreme wildfire risk in the USA.





## HUMAN LIVES LOST TO FIRE

- 2016 – 3,390
- 2017 – 3,400
- 2018 – 3,655
- 2019 – 3,704







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INTRODUCING OUR FIRST PRODUCT  
(MORE TO COME), THE ONLY FIRE  
SUPPRESSANT IN THE MARKET : **FS-01**



**FS-01**

**FIRE SUPPRESSANT**



“We are going to have to re-evaluate some of our strategies. The conditions are like we have never seen before in our firefighting career.”

Daryl Osby, Chief of the Los Angeles County Fire Department



**FS-01 is not a fire retardant, it is a FIRE SUPPRESSANT.**

**It is non-toxic and biodegradable.**

The last decade has seen an increase in the intensity of wildfires, and all predictions show it will only get worse. Fire Retardants have been used for the last 70 years and they are ineffective and toxic.

**Fire retardants do not stop fire.**

The US Forest Service banned the use of these products close (300ft) to any water source.




(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization


International Bureau

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WIPO | PCT



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(25) Filing Language:

English

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62/886,388

14 August 2019 (14.08.2019)

US

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(72) Inventor: HINRICHS, Rodolfo;

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(74) Agent: DEFILLO, Evelyn;

Defillo & Associates, Inc., PO Box 14104, Clearwater, FL 33766 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available):

AE, AG, AL, AM, AO, AT, AU, AZ, DA, DD, DG, DI1, DN, DR, DW, DY, DZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to the identity of the inventor (Rule 4.17(i))

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

— of inventorship (Rule 4.17(iv))

(54) Title: FIRE SUPPRESSANT

(57) Abstract: A fire suppressant including technical urea 10-30% (by weight), ammonium sulphate 20-50%, and sodium bentonite 12-26%. The fire suppressant further includes polypropylene glycol (polyglycol), alkyl sulfonic acid, castor oil, guar gum, and/or triethanolamine dodecylbenzene sulfonate. The fire suppressant does not pose any risk to plant or animal life since the product is completely benign and is classified as non-toxic. It does not cause any damage to aquifers or groundwater, and it biodegrades in 30 to 60 days.

WO 2021/030544 A1

FS-01 has an international patent.



## COMPETITOR

SK Capital Partners acquired in 2018 the ICL fire division and renamed it as Perimeter Solutions. Since then, they bought more companies related to fire retardants.

Perimeter Solutions is the owner of Phos-Chek® fire retardants, Solberg's® foams, Fire-Trol® and other related brands.

Phos-Check is the main fire retardant used in the USA and Australia (95% +)



Phos-Chek is currently the only product qualified by the USFS.

FS-01 is a fire suppressant vs. Phos-Chek is a long term fire retardant (LTFR). Due this is a new technology, the USFS only has a qualification as LTFR (for now).



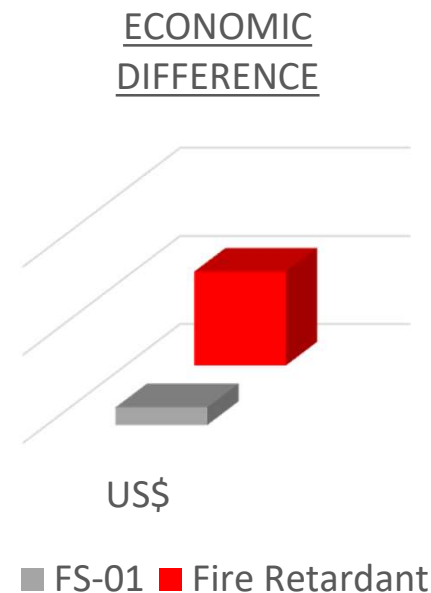
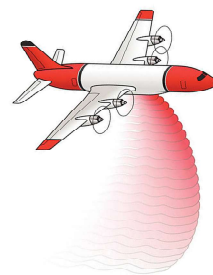
The logo for SK CAPITAL, with "SK" in white inside a dark blue square followed by the word "CAPITAL" in a dark blue serif font.



		
EFFECTIVENESS IN EXTINGUISHING FIRES	40%-60%	100%
FIRE BLOCKING	X	✓
BIODEGRADABLE	X	✓
NON TOXIC	X	✓
NON CONTAMINATING	X	✓
REDUCTION IN ACREAGE BURNED	20%-50%	80%
SAFETY	50%	100%
INCREASE OR DECREASE IN THE COSTS OF FIRE EXTINCTION	+ 15%	- 30% / -50%



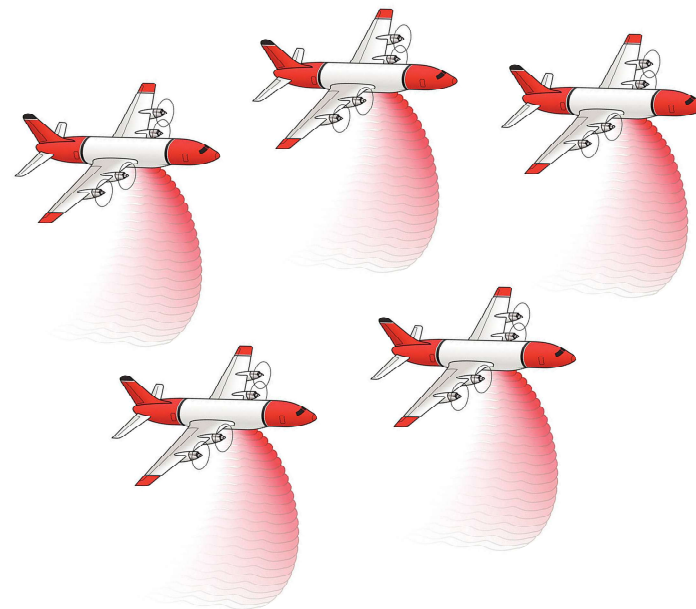
# COMPARATIVE EFFECTIVENESS IN FIRE EVENTS: RETARDANTS VS. FS-01 FIRE SUPPRESSANT



## ECONOMIC FACTORS AND DIFFERENCES

### Fire Suppressant: FS-01

- One Single Application
- Non-Toxic and Biodegradable
- Mixture Ratio: 15%
- Product Quantity: 1,800 liters
- Product Cost: **US\$ 12,060**
- Flight Cost: **US\$ 9,000**
- No Additional Applications or Ground Combat Required
- Burned Area Reduction: -80%
- Fewer Human and Material Losses
- **TOTAL FIRE COST: US\$ 21,060**



### Fire Retardants

- Multiple Applications Required (Between 4 and 6)
  - Toxic to Aquatic Environments
  - Mixture Ratio: 20-25%
  - Product Quantity: 13,620 liters
  - Product Cost: **US\$ 49,032**
  - Flight Cost: **US\$ 45,000**
  - Additional Applications and Ground Combat Required to Extinguish the Fire Once Weakened
  - Burned Area Reduction: -20/30%
  - Continued Loss of Lives and Homes
  - **TOTAL FIRE COST: US\$ 104,032**
- (Includes the required ground combat cost: US\$ 10,000)



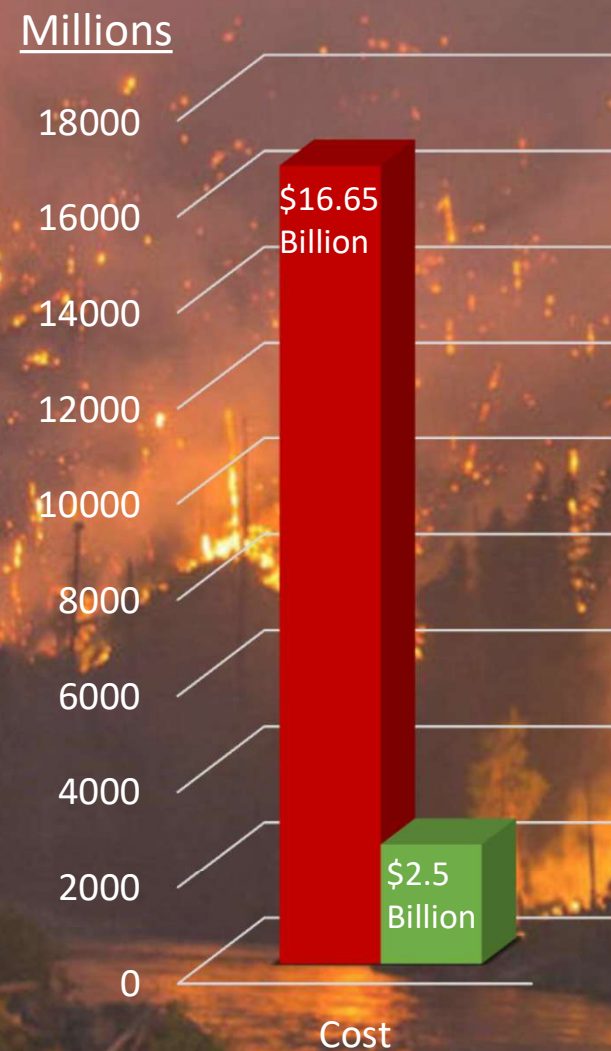


# CAMP FIRE (Nov. 2018) - PARADISE, CALIFORNIA



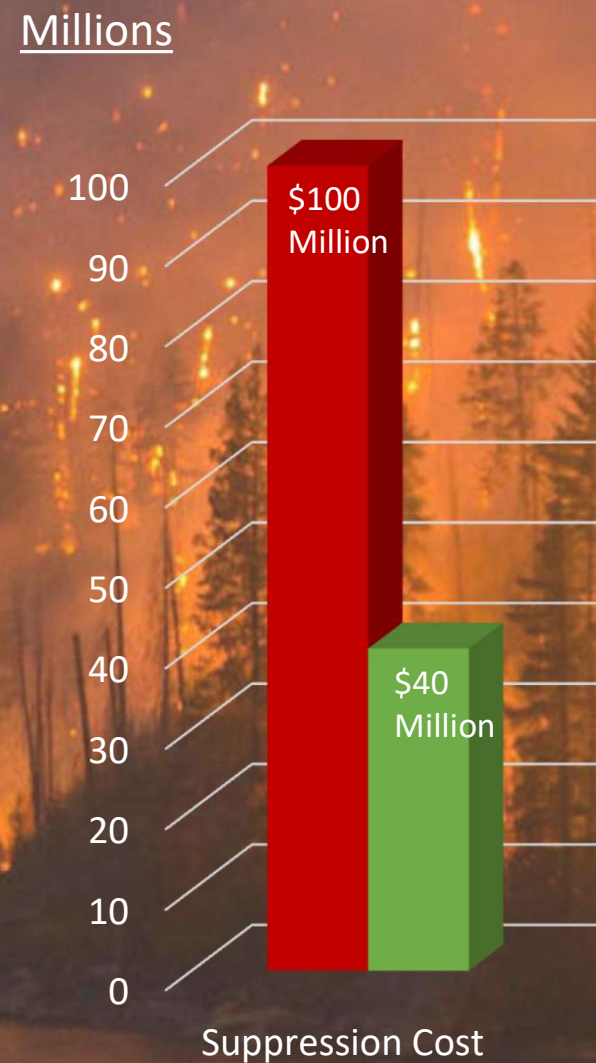
Real numbers using Phos-Chek VS. estimated numbers using FS-01

## TOTAL COST



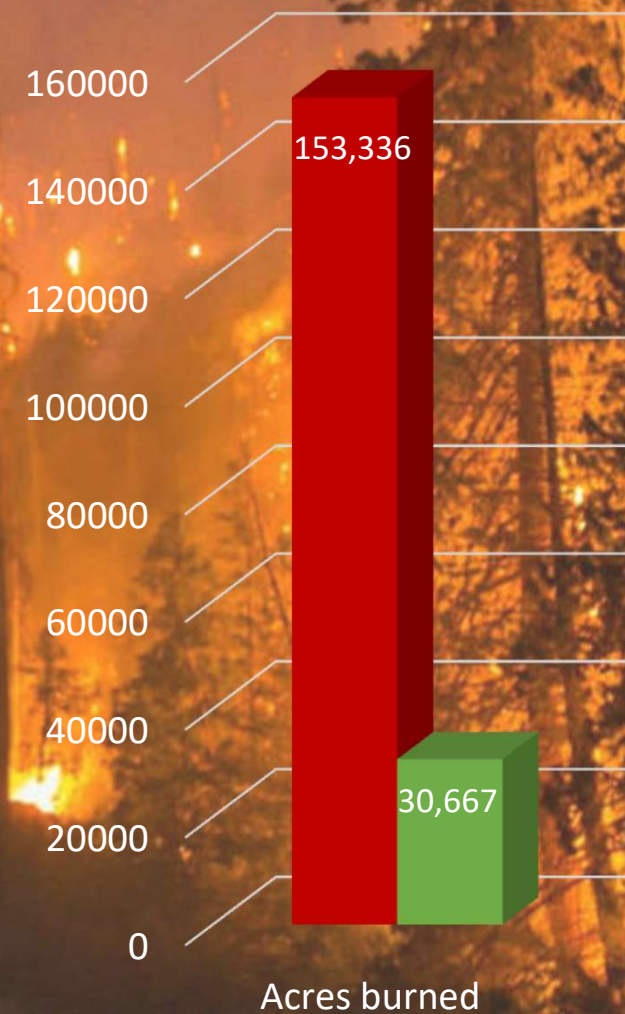
■ Phos-Chek ■ FS-01

## SUPPRESSION COST



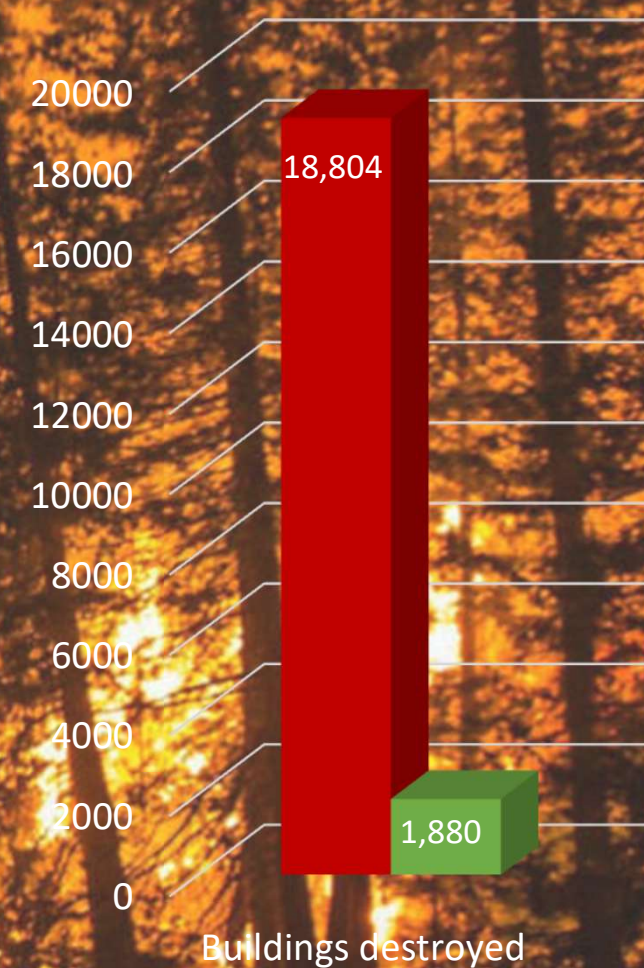
■ Phos-Chek ■ FS-01

## ACRES BURNED



■ Phos-Chek ■ FS-01

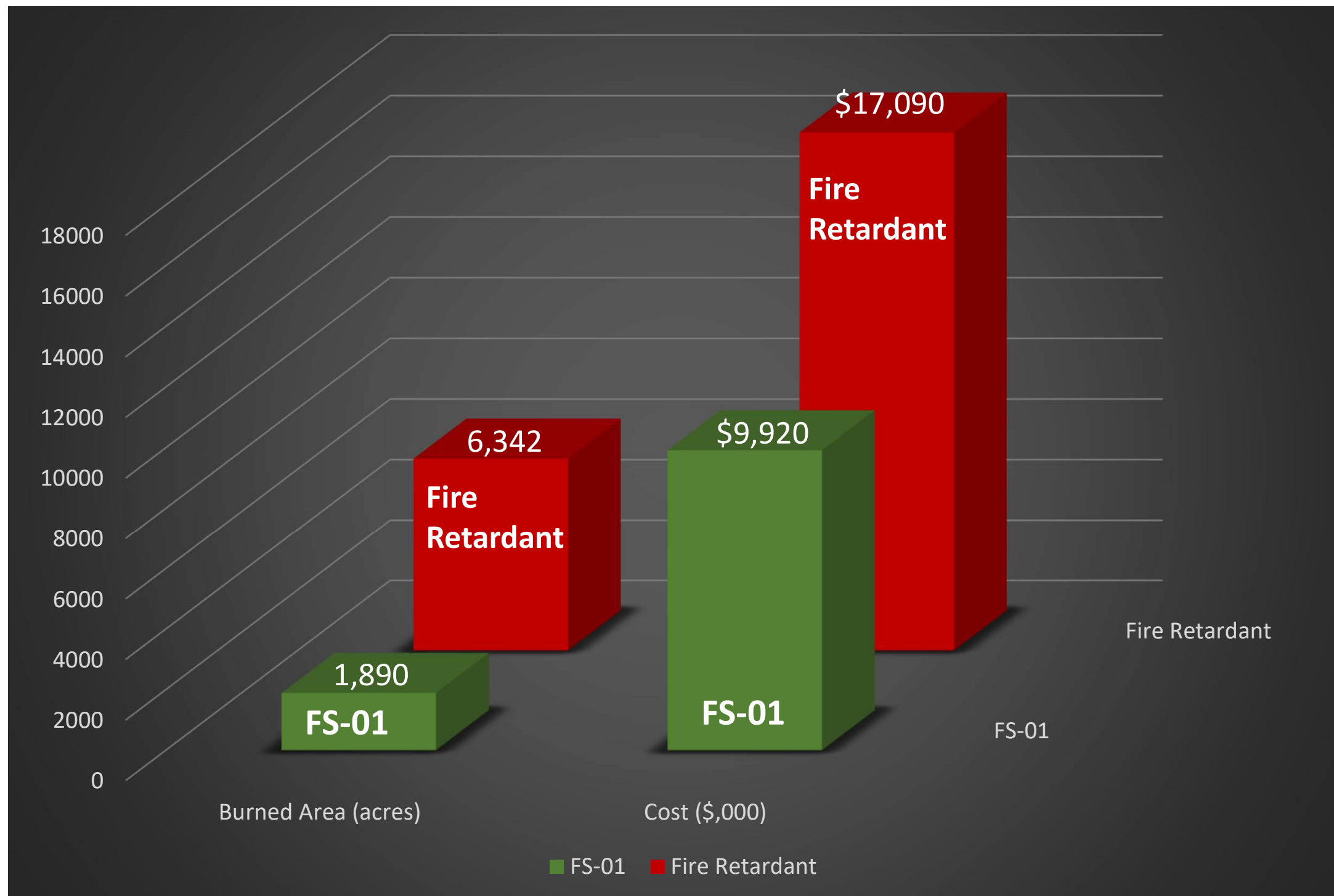
## BUILDINGS DESTROYED



■ Phos-Chek ■ FS-01



## COMPARATIVE DIRECT IMPACT: Fire Retardant (red) vs. FS-01 (green)



We can reduce:

- Burned acres  
80%
- Suppression cost  
50%





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**FS-01** has undergone a five-year testing phase, during which the product has been used in tests as well as real-life fires by authorities in Spain, Portugal, Brazil, Chile and Australia. The product has proven to be 100% effective in these areas where applied correctly.

Experts on the matter have also certified the use of the product. Currently, we have certificates from:

- Professor Vega, Galicia Center for Forestry Studies (Centro de Estudios Forestales de Galicia).
- Government of Galicia, Spain.
- Military Emergency Unit (Unidad Militar de Emergencias), Spain.
- Portuguese Center for Forest Fire Studies (Centro de Estudos de Incendio Florestais de Portugal).
- Association for the Development of Industrial Aerodynamics (Associação para o Desenvolvimento da Aerodinâmica Industrial), Portugal.
- Associated Energy, Transportation, and Aeronautic Laboratory (Laboratório Associado de Energia, Transporte e Aeronáutica), Portugal.
- Municipal Fire and Civil Protection Department (Municipal de Bombeiros e Protecção Civil), Vila Nova de Gaia, Portugal.
- Brazilian Institute for the Environment and Renewable Natural Resources (Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis), Brazil.
- Approval by the Center for Emergencies of the European Union.




# INTERNATIONAL CERTIFICATES



**XUNTA DE GALICIA**  
CONSELLERÍA DE MEDIO RURAL  
Dirección Xeral de Montes

Apertado de Correos n.º 127  
36080 Pontevedra (España)  
Teléf.: 34 986 80 50 00 - Fax: 34 986 85 64 20  
Correo electrónico: [info@xapaco-xunta-galicia.org](mailto:info@xapaco-xunta-galicia.org)

**XACOBEO 2010**  
Galicia


**CENTRO DE INVESTIGACIÓN FORESTAL - LOURIZÁN**

Como puede apreciarse en la tabla 5, en la zona tratada con el agente extintor se produjo una reducción drástica de la temperatura máxima alcanzada, tanto en el matorral como en la hojarasca. Igualmente las duraciones de temperaturas superiores a los umbrales indicados cayeron totalmente a valores propios de ausencia de llama.

**CONCLUSIONES**


- 1) La quema que se llevó a cabo puede ser considerada como un fuego típico en estas formaciones de matorral, que suelen generar intensidades altas, debido a la edad, altura y carga del matorral presente en ellas. En algunos momentos el avance del fuego se vio frenado por el efecto de un viento de baja velocidad y desviado respecto al eje longitudinal de la parcela. Sin embargo, en el tramo donde el fuego alcanzó la zona tratada con producto, desarrolló una gran intensidad, gracias a que el viento sopló con más velocidad (7 km/h) y más alineado con el eje de la parcela.
- 2) Las estimaciones efectuadas y los datos de las temperaturas obtenidas indican que, en las proporciones utilizadas, la mezcla presentó una efectividad total en la extinción del frente de llamas, ya que el fuego se extinguió sin sobrepasar el límite de la zona tratada.
- 3) En esta experiencia no se consideró la comparación con la aplicación de la misma dosis de riego con agua sin la adición del agente extintor.
- 4) Esta prueba puede considerarse solo como un ensayo demostrativo, siendo necesario efectuar un testado del producto con una base experimental mas amplia para obtener un resultado mas concluyente y homologable.

Vº Bº Director del Centro




Fdo: Gabriel Toval Hernández

Jefe Departamento




Fdo: José Antonio Vega Hidalgo



**Município de V. N. Gaia**

**DIRECÇÃO MUNICIPAL DE BOMBEIROS E PROTECÇÃO CIVIL**



**7. Conclusão**

Os incêndios florestais são a principal ameaça à nossa área florestal, pelo que encontrar soluções eficazes na prevenção e aplicar novas tecnologias no combate é muito importante.


A demonstração do produto LICET-F, teve como principal objectivo apresentar a sua eficiência no combate, no caso demonstrado pode-se dizer combate indirecto.

Ficou aqui demonstrada a todos os presentes a sua elevada eficiência dado a parcela de demonstração apresentar todas as especificações de uma situação real, associada às condições atmosféricas adversas (vento forte e baixa humidade).

A época de Verão está próxima e nada melhor do que num grande incêndio, com a presença de diversas entidades com carácter decisivo, poder aplicar este produto e tirar se dúvidas houvesse as suas conclusões.


Vila Nova de Gaia, 4 de Abril de 2011.

O Técnico Superior




Luís Moita  
(Eng.º Florestal)

O Director Municipal da DMBPC  
Comandante Operacional Municipal



Salvador de Pinho Pereira Almeida  
(Eng.º Civil e Mecânica Eng.º Sanitária  
Pós-graduado Eng.º Antecipar  
Técnico Europeu de Segurança  
Pós-graduado Gestão de Recursos Naturais)

QUARTEL DA COMPANHIA DE BOMBEIROS SAPADORES - AV. VASCO DA GAMA 930 - 4430 - 248 OLIVEIRA DO DOURO - VILA NOVA DE GAIA  
TELEFONES: 22 377 80 00 - 22 377 80 40 - EMERGÊNCIA: 22 375 24 24 - 223 796 270 FAX: 22 377 80 80 - FAX DE EMERGÊNCIA: 22 377 80 99  
Mail: [dmbpc@mail.cm-gaia.pt](mailto:dmbpc@mail.cm-gaia.pt) N.º Municipal de Emergência - 707 24 24 00



**SERVIÇO PÚBLICO FEDERAL**  
MINISTÉRIO DO MEIO AMBIENTE - MMA  
INSTITUTO BRASILEIRO DO MEIO AMBIENTE E DOS RECURSOS NATURAIS RENOVÁVEIS - IBAMA

**Ofício Nº 322 /2008- IBAMA/DIRETORIA DE PROTEÇÃO AMBIENTAL**

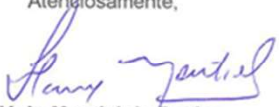
Brasília-DF, 3 de setembro de 2008.

Prezado Senhor,

Após demonstrações do produto LICET-F realizadas por essa empresa para os técnicos especializados do Centro Nacional de Prevenção e Combate aos Incêndios Florestais – PREVFOGO, vinculado a esta Diretoria de Proteção Ambiental - DIPRO do IBAMA, vimos comunicar que o referido produto foi considerado tecnicamente eficiente para o bloqueio e redução da violência das chamas, pelo que esta Diretoria decidiu por desencadear processo específico e qualificado para a aquisição do produto LICET-F com vistas ao suprimento das equipes de brigadistas distribuídas ao longo das 80 bases que estão sendo estruturadas na região do "Arco do Fogo" na Amazônia.

Assim, e considerando que nos encontramos no auge do período de estiagem na Região Centro-Oeste e na porção sul da Região Norte do País, consultamos V.Sa. quanto as condições efetivas de produção e de logística de distribuição que esta empresa apresenta para fornecimento inicial de aproximadamente 100 ton do produto LICET-F no prazo aproximado de 30 dias.

Atenciosamente,




**Flávio Montiel da Rocha**  
Diretor de Proteção Ambiental

Ilmo. Sr.  
**Paulo Habinoski**  
Diretor Administrativo  
Rio Sagrado Industrial Química Ltda  
Rodovia Régis Bittencourt Br 116 Km 71  
Quatro Barras – PR CEP 83420-000  
Fax: (41) 3672 2031

FS-01 was originally named Licet.





THE PRODUCT WAS TESTED IN REAL FIRES IN SPAIN, CHILE AND AUSTRALIA.

NOW IS THE TIME TO GO TO THE U.S. MARKET.



## FS-01 FOREST FIRES POTENTIAL MARKET:

- US FOREST SERVICE
- US STATES
- COUNTIES
- CITIES
- US ARMED FORCES
- PRIVATE LANDOWNERS



FEDERAL YEARLY AVERAGE (2010-2020) SUPPRESSION COSTS:

**\$1.6 Billion**

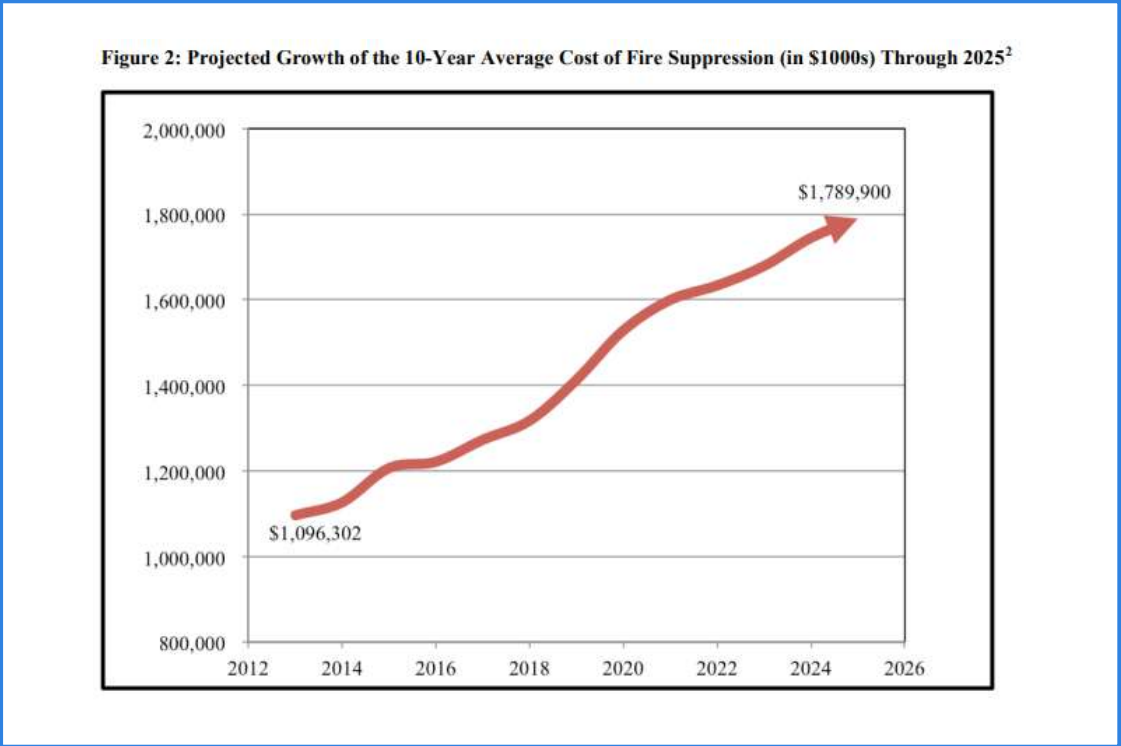
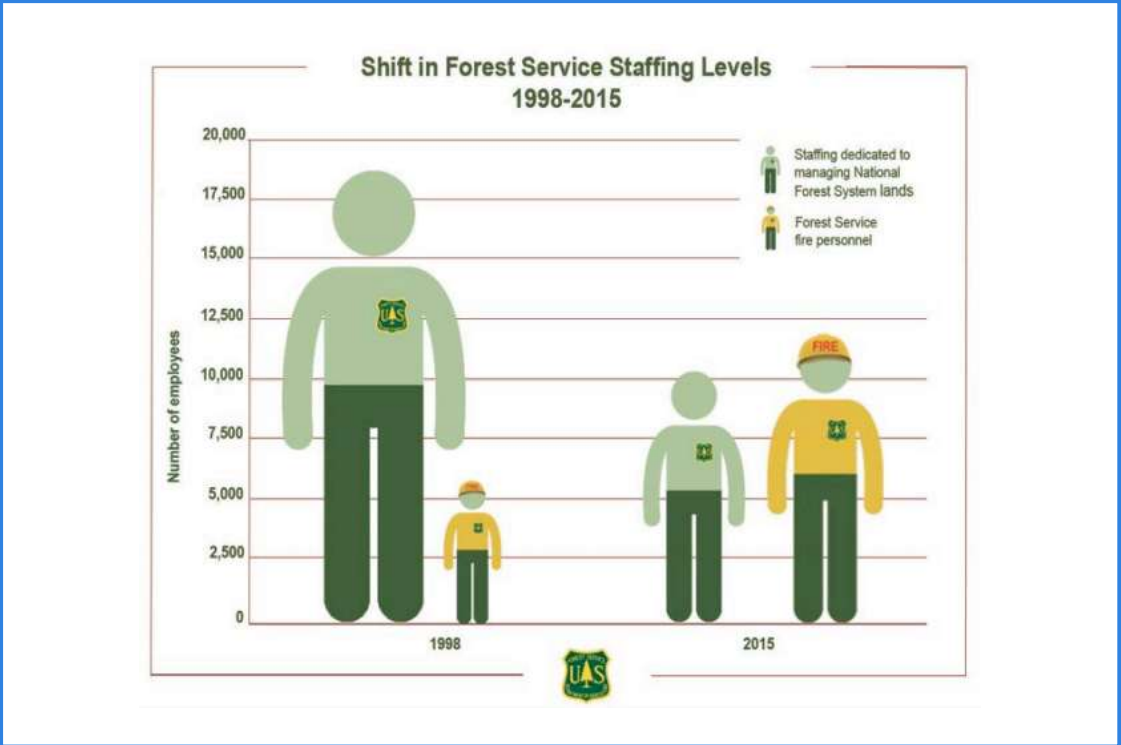
CALIFORNIA SUPPRESION COSTS (2020):

**\$3 Billion**

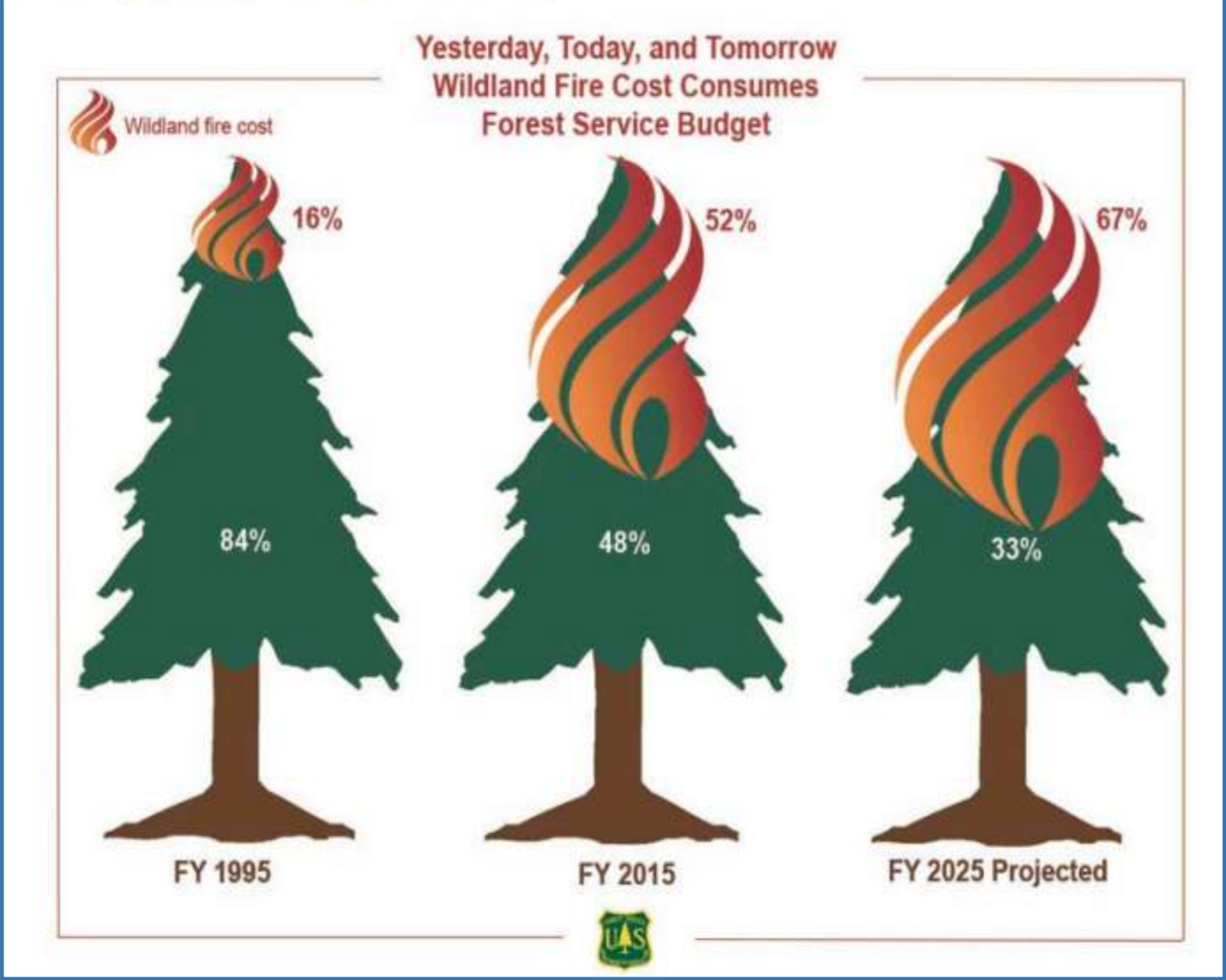




Graphs show the USFS projections on fire suppression costs as fires become more virulent.

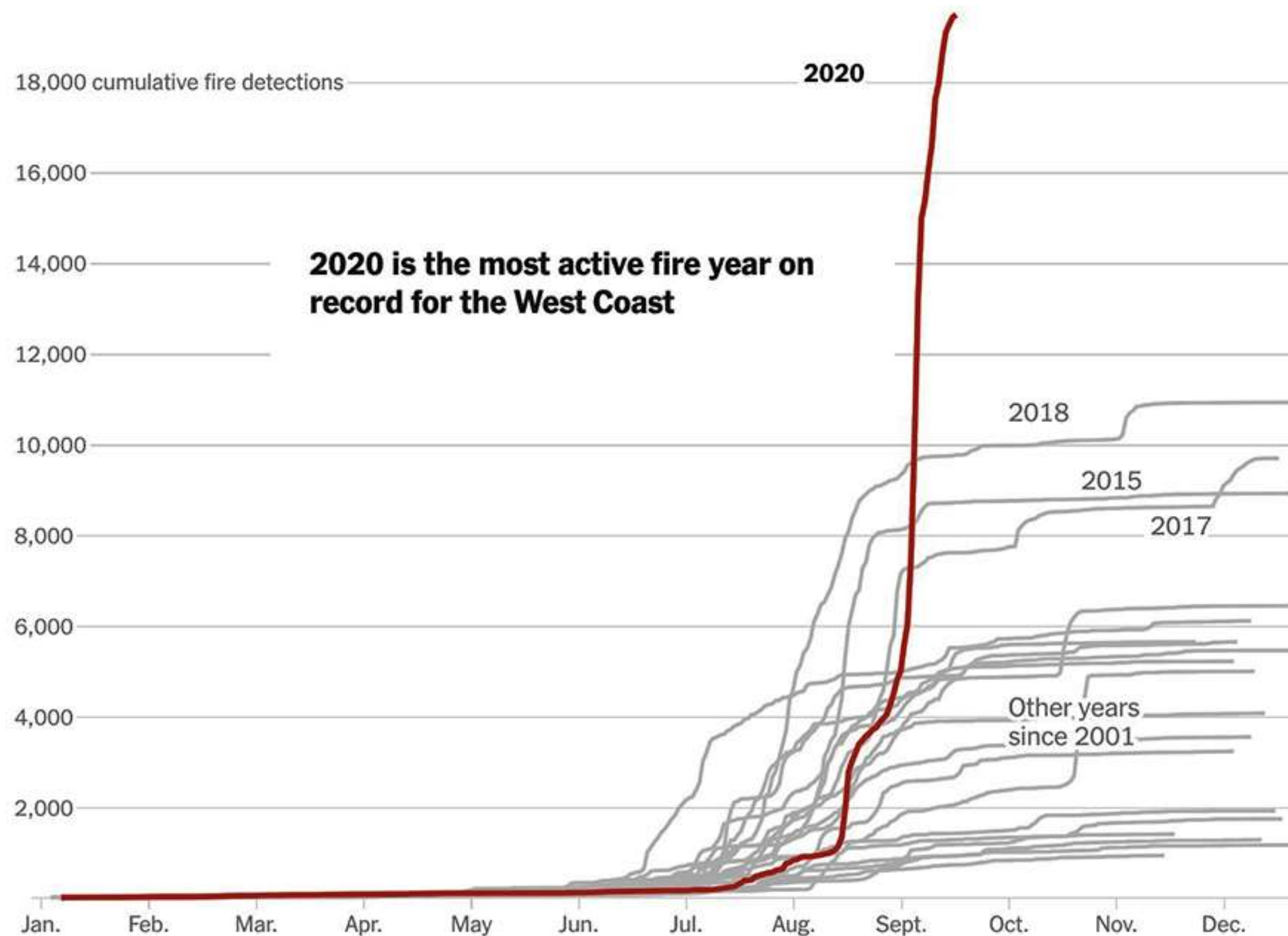


**Figure 1: The Cost of Wildland Fire (Preparedness, Suppression, FLAME, and related programs) as a Percentage of the Forest Service's Annual Budget**



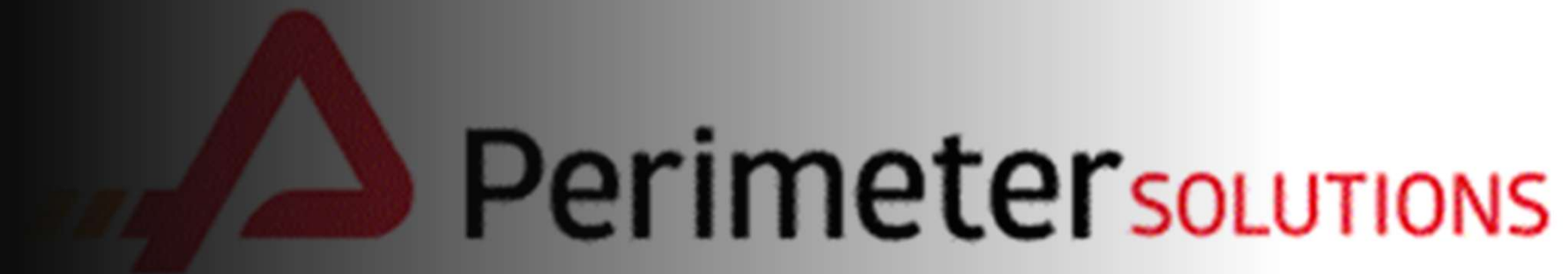
The suppression budget for 2017 was \$1.3 Billion. The real cost was \$2.4 Billion.





Note: Cumulative sum of fire detections across California, Oregon and Washington. Data as of Sept. 21. Instruments on Terra and Aqua have experienced periodic outages. ■ Source: NASA Terra and Aqua satellite data, based on detections with greater than 95 percent confidence levels.





## COMPETITOR SALES:

Total fire retardant sales by Perimeter Solutions on wildfires:

- average of \$350 – \$450 Million

USFS 2020 contract awarded to Perimeter: \$195.4 Million

DOI 2020 contract awarded to Perimeter: \$24.8 Million

Currently Phos-Chek is the only product qualified by the USFS.

Cal Fire (California Fire Dept.) and USFS only uses Phos-Chek.

As a private company, Perimeter Solutions is secretive and always declines to comment on its annual sales. These amounts are an estimate based on various sources and the USFS contract sales.





**FS-01 is approved for use by the European Union and is registered under the REACH regulation with the European Chemicals Agency.**

*REACH ([EC 1907/2006](#)) aims to improve the protection of human health and the environment through the better and earlier identification of the intrinsic properties of chemical substances. This is done by the four processes of REACH, namely the registration, evaluation, authorization and restriction of chemicals. REACH also aims to enhance innovation and competitiveness of the EU chemicals industry.*



FREE OF PFAS

NON-TOXIC

BIODEGRADABLE



RESULTS THAT MATTER

<u>Scientific Test</u>	<u>Concentrated</u>	<u>Sample Mixed with</u>
	<u>Sample</u>	<u>Water</u>
Biodegradability	96% after 28 days Practically Biodegradable	100% after 28 days Biodegradable
<u>Scientific Tests</u>	Sample Mixed with Water	
Fish Toxicity Brachydanio rerio	LC-50 (96h) = 6,930 mg/L	Classified as <b>Non-Toxic</b>
Worm Toxicity Eisenia foetida	LC-50 (96h) = 4,697.3 mg/L	Classified as <b>Non-Toxic</b>
Dalphindae Toxicity Daphnia magna	CE-50 (48h) = 10,000 mg/L	Classified as <b>Non-Toxic</b>
Oral Toxicity	DL-50 (OCDE 423) = 2,000 mg/kg	Classified as <b>Non-Toxic</b> and <b>Non-Irritating</b>
Dermal Toxicity	DL-50 (OCDE 402) = 2,000 mg/kg	Classified as <b>Non-Toxic</b> and <b>Non-Irritating</b>
Eye Irritation	BCOP 8.74	Classified as <b>Non-Irritating</b>
Eye Corrosion	OCDE 405 Aluminum = 0.1350 mm/year Copper = 0.0699 mm/year Iron = 0.0415 mm/year	Classified as <b>Non-Corrosive</b>
Metal Corrosion	Brass = 0.0763 mm/year	Classified as <b>Non -Corrosive</b>



# LABORATORY TESTS

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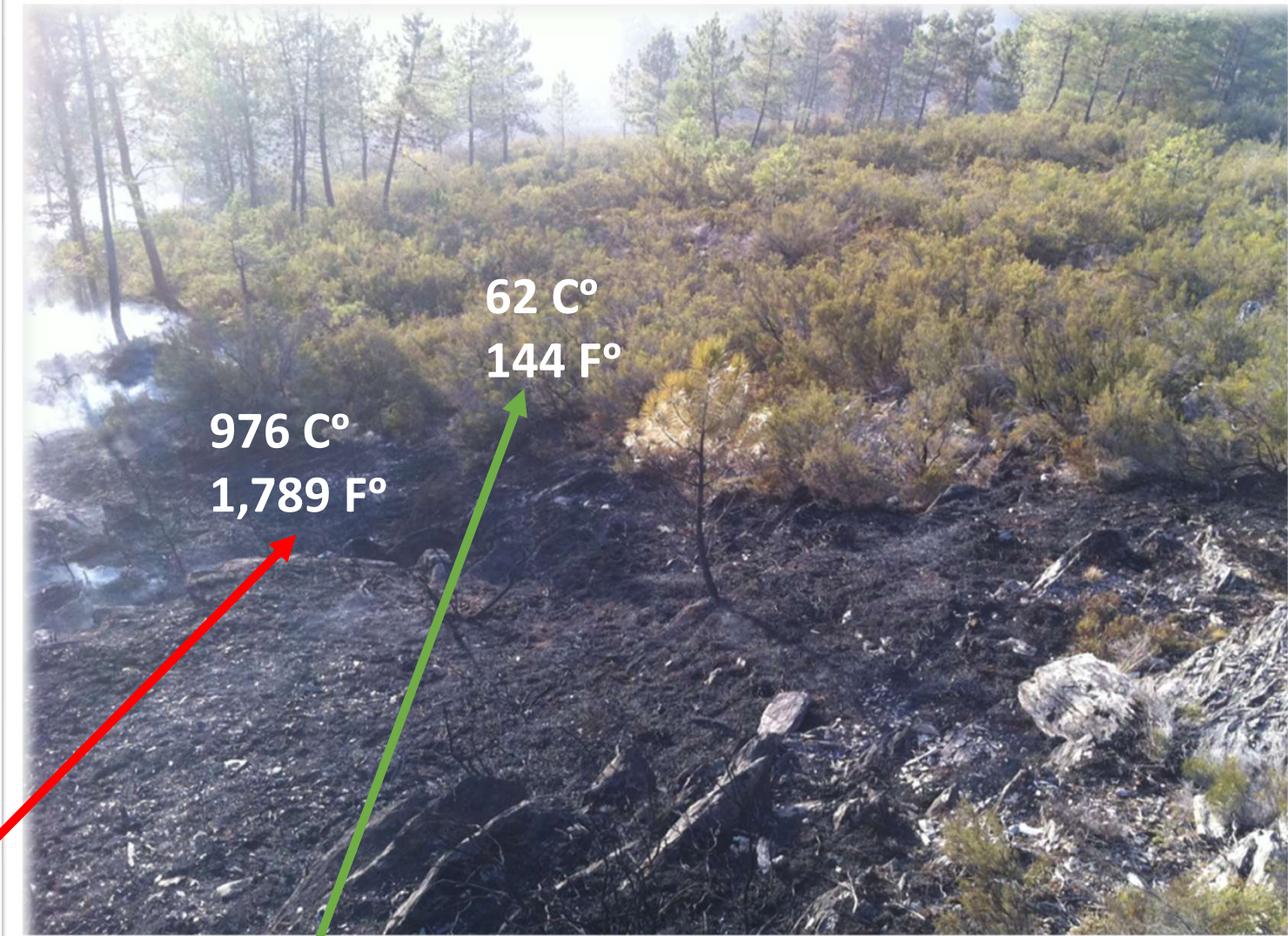
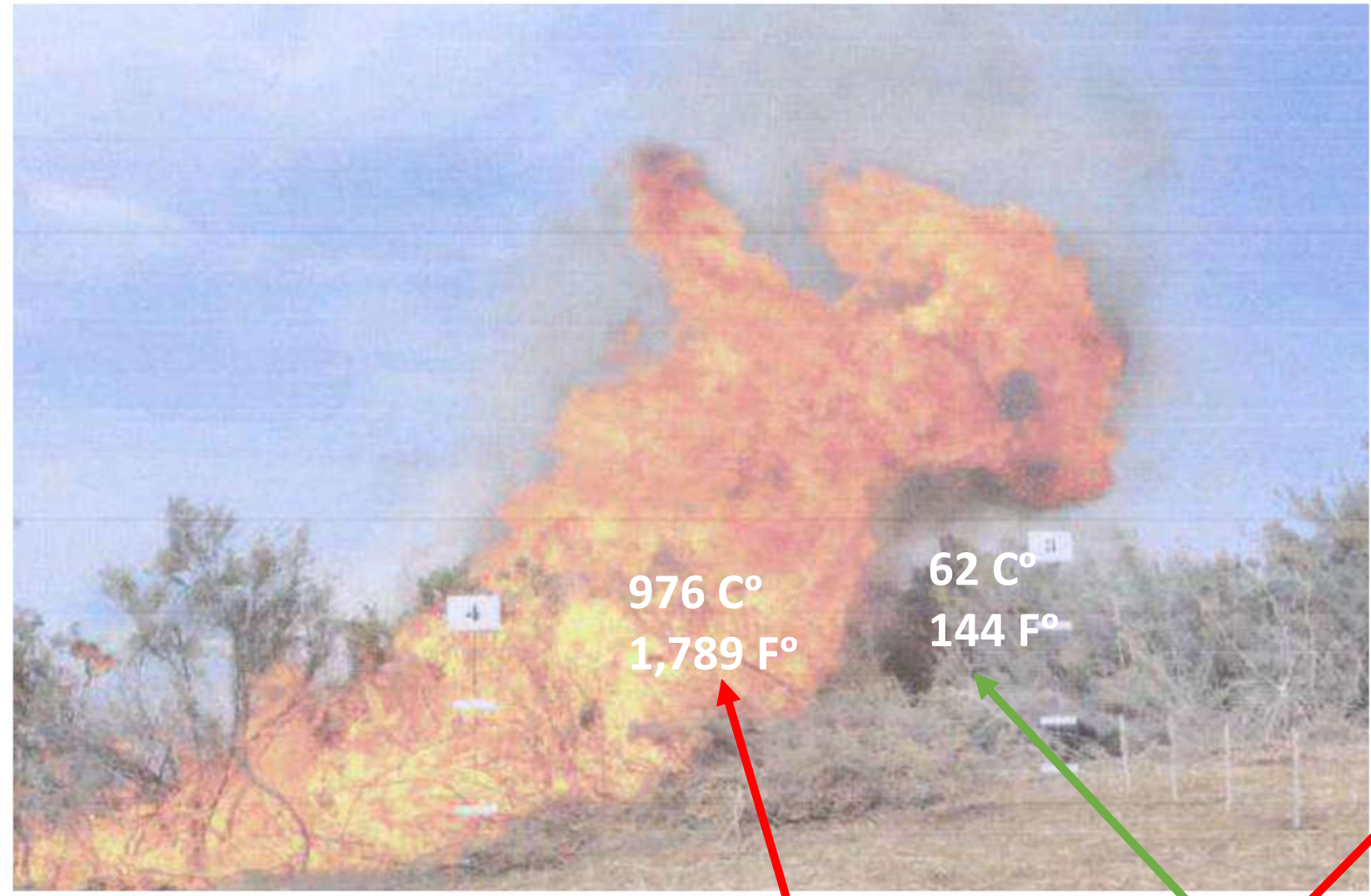


# EFFECTIVENESS ON REAL FIRES





FS-01 REACTS BY COOLING THE AREA AND PUTING OUT THE FIRE



**Table 5. Maximum Temperatures (°C) and time in seconds during which temperatures remained above 60, 350 and 700 degrees Celsius.**

	Non Treated Area				Area with Extinguishing Agent			
	Bush		Leaf litter		Bush		Leaf litter	
	Average	Range	Average	Range	Average	Range	Average	Range
Maximun T (°C)	976	846 – 1102	457	17 – 923	62	29 – 96	18	17- 18
Time with T > 60°C (S)	286	236 – 341	322	0 – 553	8.5	0 – 17	0	--
Time with T > 350°C	49	21 – 69	65	0 – 114	0	--	0	--
Time with T > 700°C	18	6 – 35	0	--	0	--	0	--



**TEST PERFORMED BY THE STATE OF  
COLORADO (USA)**

Sept. 2022



**COLORADO**  
Center of Excellence for Advanced  
Technology Aerial Firefighting  
Division of Fire Prevention & Control







**SUCCESSFUL DRONE TEST PERFORMED BY  
THE STATE OF COLORADO (USA) WITH FS-01**  
Oct. 2023



**COLORADO**  
Center of Excellence for Advanced  
Technology Aerial Firefighting  
Division of Fire Prevention & Control





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FS-01 application in a real wildfire in Spain



# CLICK THE VIDEOS BELOW TO WATCH A DEMONSTRATION OF FS-01

(If links don't work, please copy and paste in browser)

<https://youtu.be/bln8dEchhQE>

This video shows a test where the product was applied on the right half of the area. When the fire reaches the application area, it stops in its tracks.

<https://youtu.be/W61lbf-KSeY>

This video shows a pool filled with burning gasoline. It demonstrates the difference between fighting fire with water versus with FS-01.

<https://youtu.be/nFXvJOTTBOY>

This video shows an application of the product in a real fire from a plane (Hercules C-130 equipped with MAFFS). The product can be applied from any firefighter aircraft without any modification.

[https://youtu.be/5h-hXnGwH\\_Q](https://youtu.be/5h-hXnGwH_Q)

This video shows an application area to which gasoline is applied several times. The gasoline is not capable of igniting the treated area.







# FS-02

## STRUCTURAL FIRES

- Estimated number of buildings in the US: 25 Million
- Average yearly structure fires in the USA: 470,000
- Average yearly losses from structural fires: \$20 Billion

## POTENTIAL MARKET

- REAL ESTATE INVESTMENT FUNDS
- INSURANCE COMPANIES
- BUILDING OWNERS
- MANAGEMENT COMPANIES
- GOVERNMENTS
- US ARMED FORCES

FS-01 is the only product on the market that can be used in residential and commercial fire sprinkler systems.



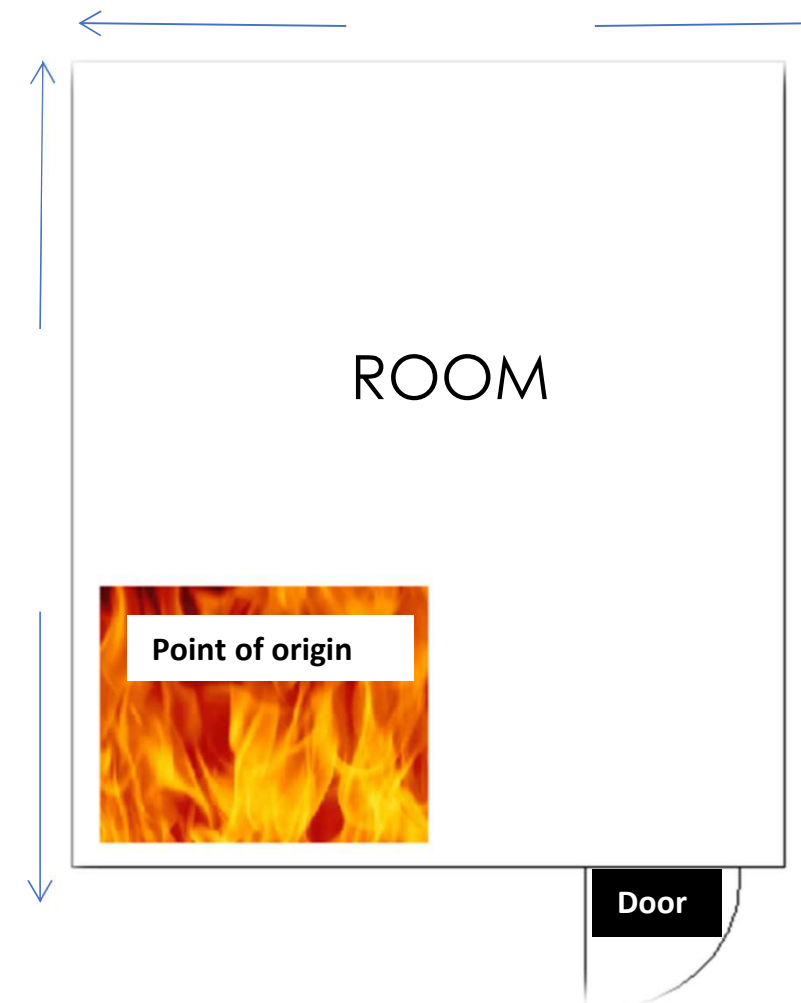
FS-01 WAS TESTED ON  
STRUCTURAL FIRES

RESULTS SHOW LESS  
TIME AND LESS WATER  
ARE REQUIRED TO  
EXTINGUISH  
THE FIRE.





## TEST ON STRUCTURE (2013)



A fire was started in one of the rooms of the structure with flammable fuel mixed with an accelerant (gasoline).



# METHODS USED

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## Firefighting backpack

- Capacity: 4 Gall.
- Adjustable nozzle.



- Flameproof suit, helmet, boots and gloves
- self-contained breathing apparatus
- Communication system(walkie-talkie)



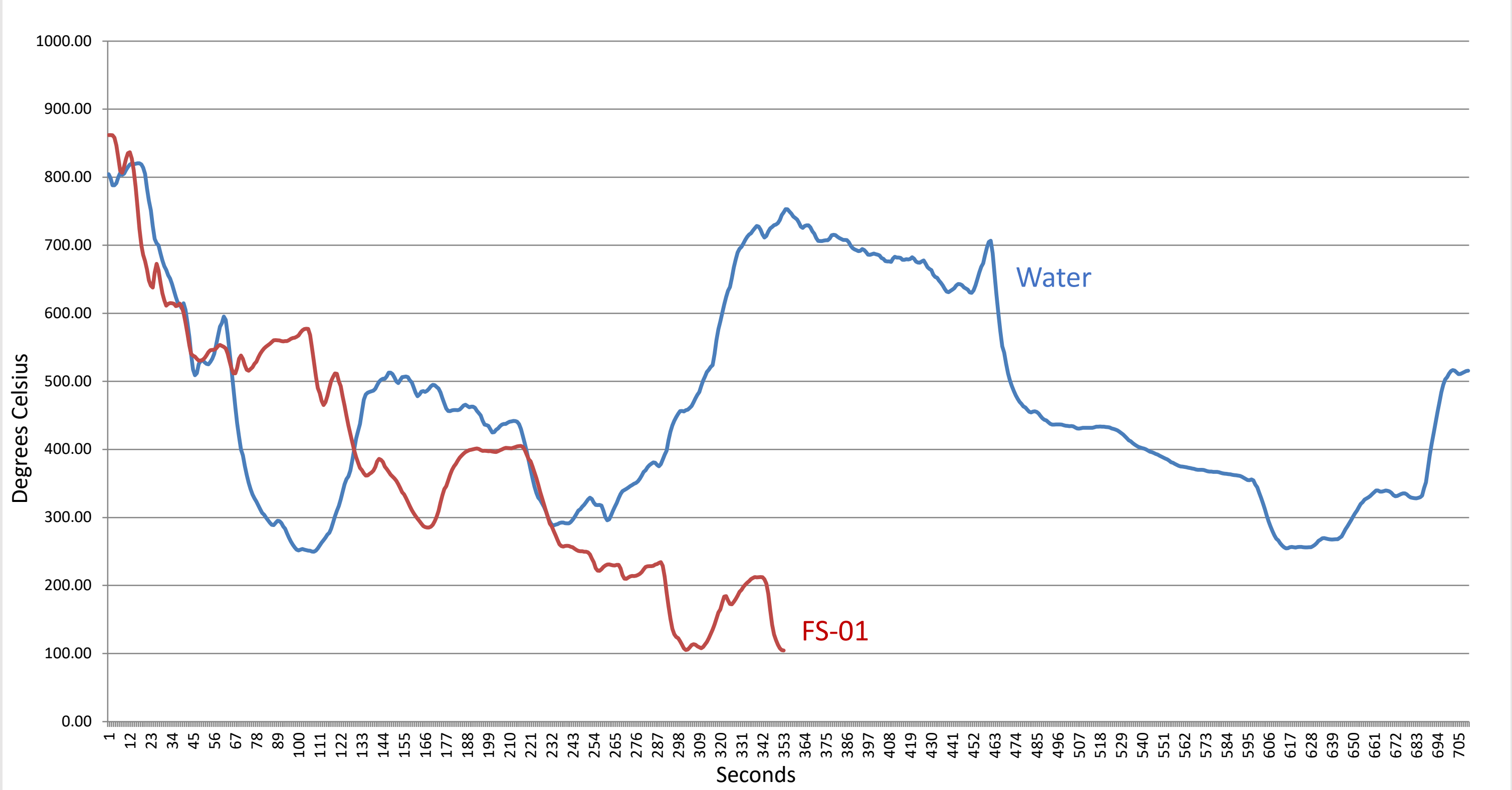


**STRUCTURAL FIRE: Water vs. FS-01**

(tested on real fire)

Water: blue

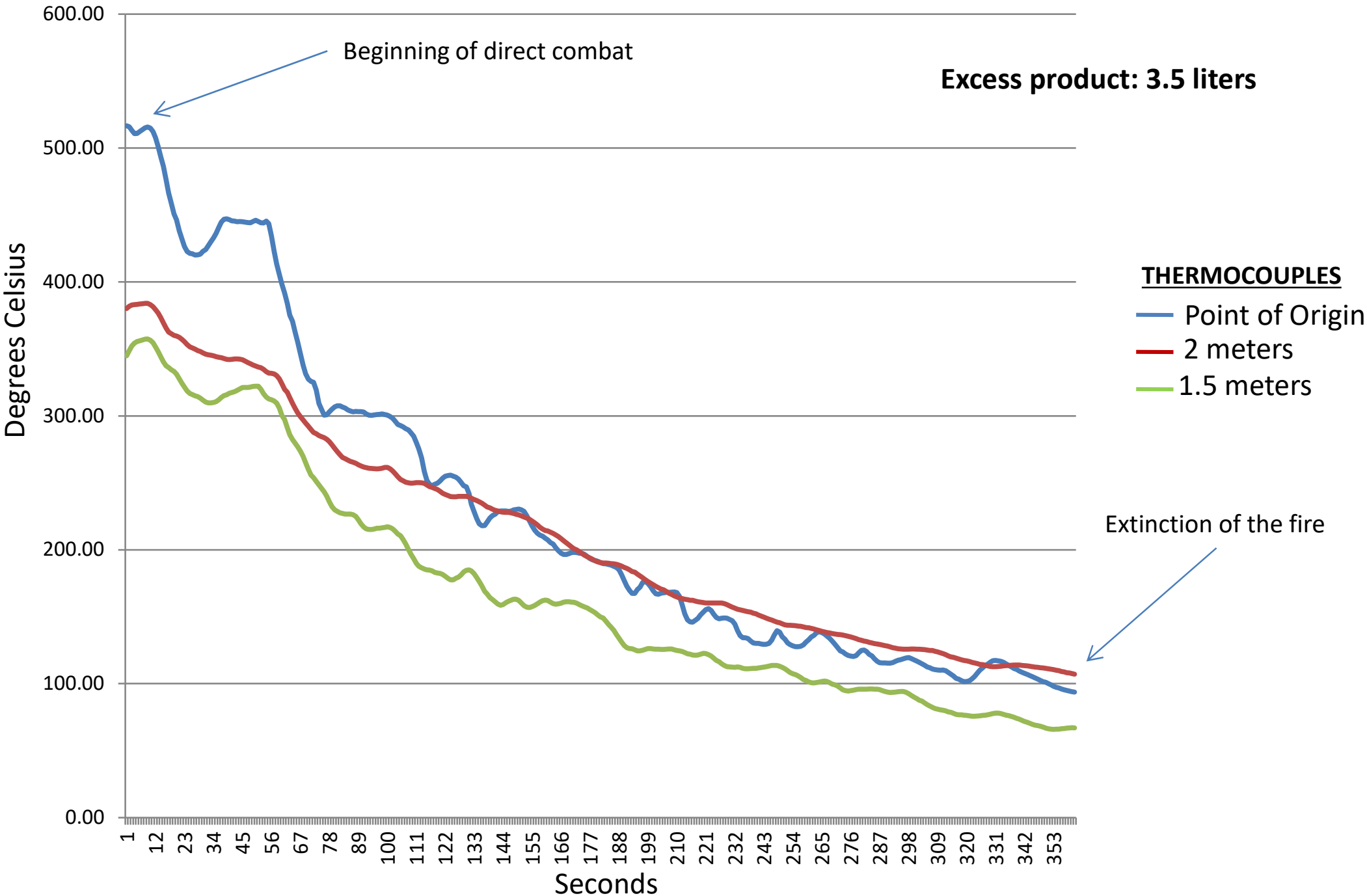
FS-01: red





**TABLE 6**

Combat with 15-Liter backpacks of FS-01. Direct combat.





# OIL & GAS MARKET

GREEN CANYON developed a specific product designed for the Oil & Gas market. FS-02 lowers the temperatures of the fire dramatically and will allow the extinction safe and fast.





# MILITARY

[VIDEO PRESENTATION \(click here\)](#)

A STRATEGIC ADVANTAGE OVER OUR ENEMIES.

- Free of PFAS: FS-01 is the only proper substitute for the recently banned cancerous fire retardants (not free of PFAS), used on military bases. FS-01 is Non-Toxic and Biodegradable.
- During an attack or an accident, it will prevent fire from destroying essential infrastructure on the bases.
- During an attack in the field, it will save the lives of our heroes if they are trapped in a vehicle on fire.
- Maintaining its effectiveness even if mixed with sea water, FS-01 will stop a fire on a military vessel, saving it from destruction and keeping it ready for combat.
- To protect civilians in armed conflict against fires caused by incendiary devices.

**FS-02 will prevent the destruction caused by fire, keeping the military running, safe, and ready to defend our Country.**





**FIRE FIGHTING FOAMS CONTAINING CANCEROUS PFAS HAVE BEEN USED IN HUNDREDS OF MILITARY BASES, CONTAMINATING THE AREA AND THE GROUND WATER, AFFECTING MILITARY PERSONNEL AND THE ADJACENT POPULATION.**

**CANCER RATES ARE INCREASING IN THE AFFECTED AREAS.**

<https://www.youtube.com/watch?v=W61lbf-KSeY>

**FS-01 & FS-02 DO NOT CONTAIN**  
**PFAS**

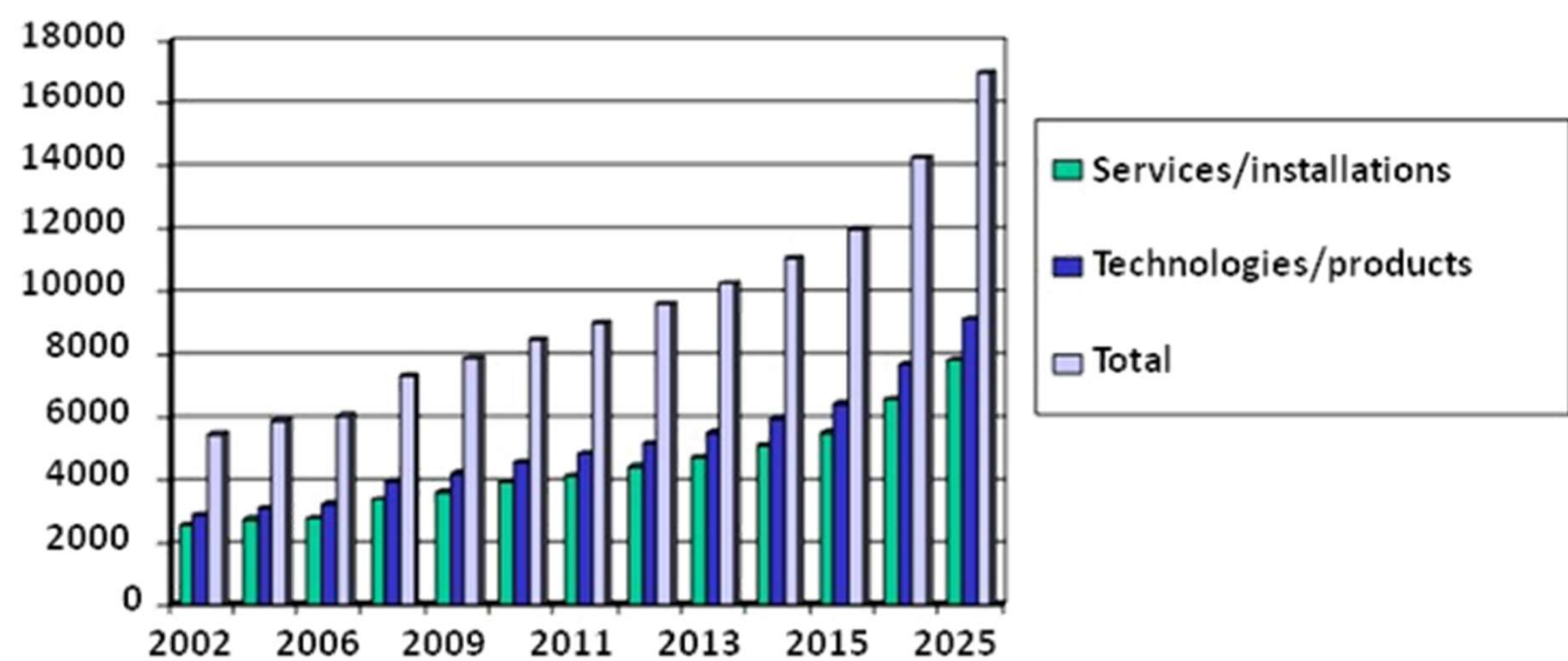


# MARKET EVOLUTION

## 7.10.3. Markets for active fire protection -- USA/NAFTA

### 7.10.3.1 The total market for active fire protection in USA/NAFTA 2002-2008-2025 in Mio. €

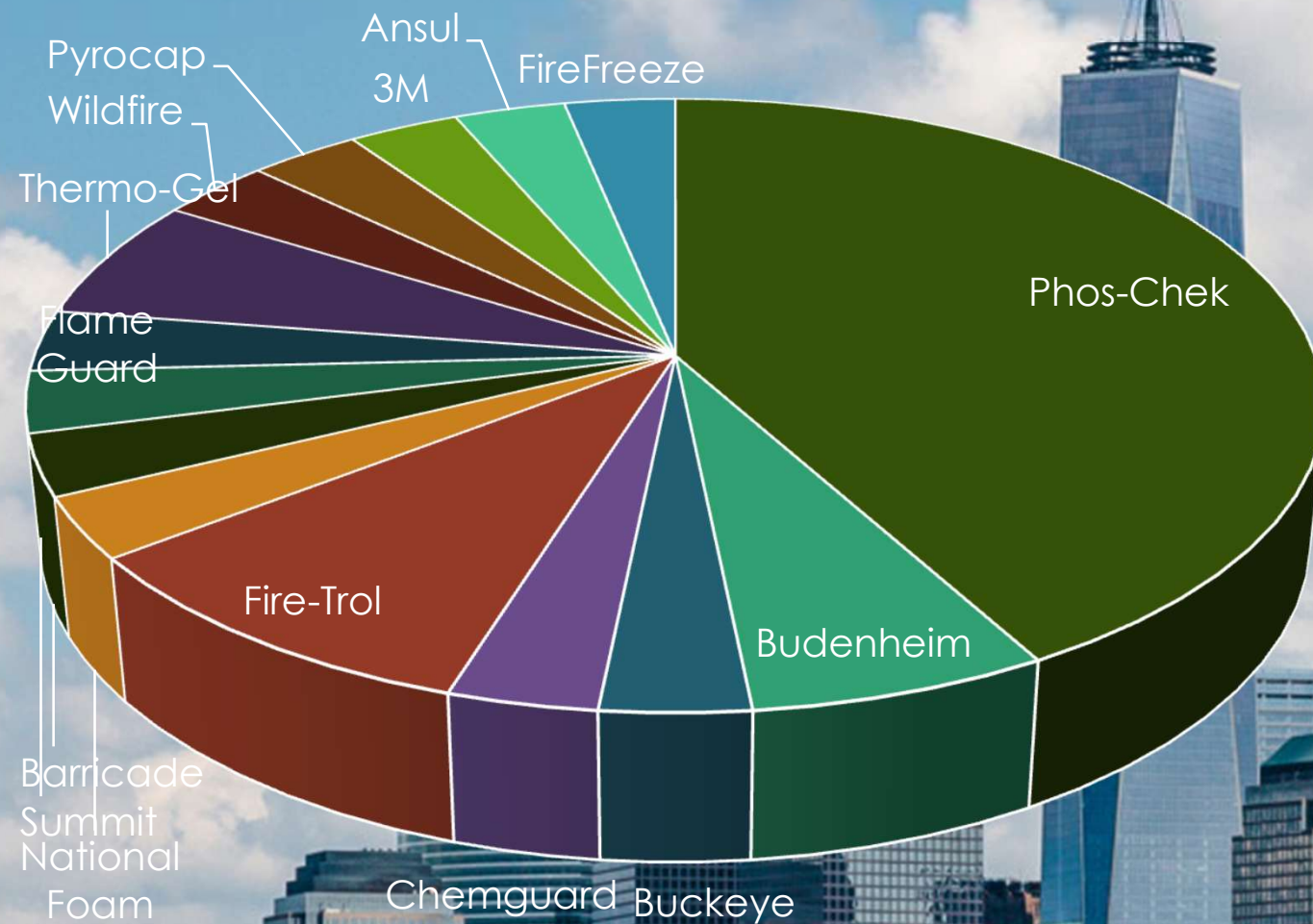
	2002	2004	2006	2008	2009	2010	2011	2012	2013	2014	2015	2020	2025
Services/installations	2570	2779	2803	3389	3639	3923	4164	4448	4740	5118	5540	6598	7837
Technologies/products	2905	3123	3268	3952	4242	4573	4854	5185	5526	5968	6459	7693	9137
Total	5475	5902	6071	7341	7881	8496	9018	9633	10266	11086	11999	14291	16974





# COMPETITIVE ENVIRONMENT

Range of products and companies related to structural fires




Of all these companies, only Phos-Chek and Budenheim sell long-term retardants for wildfires. Phos-Chek (Perimeter Solutions Co.) is sold in the USA, NAFTA countries, and Australia, and Budenheim's product Buma is sold in Europe. Recently, Buma was purchased by Perimeter Solutions. This means FS-01 currently has only one competitor.

Brands	Nº Products
Phos-Chek	13
Budenheim	1
Buckeye	1
Chemguard	1
Fire-trol	3
National Foam	1
Barricade	1
Summit	1
Flame Guard	1
Thermo-Gel	2
Wildfire	1
Pyrocap	1
3M	1
Ansul	1
FireFreeze	1
<b>Total</b>	<b>31</b>

Many of these companies are suppliers for fire combat units. None of the products have the capacity to block or suppress fire; all are retardants. FS-01 is the only product that blocks and suppresses fire.

Some of these brands were bought by Perimeter Solutions.





IN LOVING MEMORY OF THE 19<sup>th</sup>  
“GRANITE MOUNTAIN HOTSHOTS”  
THAT NEVER RETURNED HOME IN  
2013, AND ALL THE PEOPLE THAT  
HAVE DIED IN FIRES.





GREEN  
CANYON  
VENTURES

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THANK YOU