

**Supplementary Table S1**—Comparison of signalment and experience data among search-and-recovery dogs deployed in response to the California Camp Fire wildfire (2018); the Oso, Wash, landslide (2014); Bastrop County, Tex, wildfire (2012); Haiti earthquake (2010); WTC attacks (2001); and OKC bombing (1995).

Deployment Data	California Camp Fire Gordon	SR-530 Landslide, WA Gordon	Bastrop County, TX Migala, Brown	Haiti Earthquake Gordon	WTC Attack NYC, NY Fox	WTC Attack - NYC, NY Slensky	OKC Bombing Duhaime
Dates Deployed	November 11-29, 2018	April 2-23, 2014	September 7-11, 2012	Jan 15-29, 2010	Sept 11-Oct 1, 2001	WTC: 9/11-10/6, 2001 Pentagon: 9/11-24, 2001 Landfill: 9/17-29, 2001	April 19-May 4, 1995
Total Dogs in Study	30	25	6	23	27	96	69
Agency Affiliation	Volunteer, LE, County, State, FEMA HRD	FEMA HRD	FEMA HRD	FEMA LF	NYC Police Dept	FEMA, LE, NGO-SAR	FEMA, LE, NGO-SAR
Handler Experience - Years	Mean 12.5 Years Range 3 - 23 Years	Mean 7.5 Years Range 1.5 - 29 Years	Not reported	Not reported	Not reported	Not reported	Patrol: 0.5-10 years; mean 4 years ED: not reported SAR: 2.5-30 years; mean 7 years
Handler Experience - Deployments	Mean 78; Range 2 - 300 100 % Prior deploys 0% 1st deploy	62.5% Prior deploys 37.5% 1st deploy	Not reported	Not Reported	Not reported	Not reported	Not Reported
Canine Experience - Deployments	100 % Prior deploys 0% 1st deploy	29% Prior deploys 71% 1st deploy	Not reported	Not Reported	4% (1 K9) Prior deploy 96% NYC work only	48% Prior deploys 52% 1st deploy	Patrol: Not reported ED: Not reported SAR: 100% prior deploys
Canine Breeds	27% Labrador Ret 17% Belgian Mal 13% German Shep	48% Labrador Ret 20% German Shep 8% B Mal, G Ret, BColX	Not reported	43% Labrador Ret 26% German Shep 13% Belgian Mal	78% German Shep 18% Labrador Ret 4% Belgian Mal	32% German Shep 29% Labrador Ret 13% Golden Ret	Patrol: 100% GSD ED: 50% B Mal, 25% GSD SAR: 33% GSD, 20% Lab, 18% G Ret All: 45% GSD, 15% Lab, 11% G Ret
Canine Genders	53% Female spay 23% Male neuter 13% Male 10% Female	56% Male neuter 24% Male 16% Female spay 4% Female	Not reported	65% Male neuter 22% Female spay 13% Male 0% Female	74% Male 19% Male neuter 7% Female spay 0% Female	41% Female spay 38% Male neuter 19% Male 2% Female	Patrol: 100% Male ED: 75% M, 17%FS, 8% MN SAR: 44% FS, 31% M, 20% MN, 4% F All: 52% M, 31% FS, 14% MN, 3% F
Canine Ages	Mean 6 Yrs 2 Mos Range 2Y 5M - 10Y 8M	Mean 5 Yrs 0.5 Mos Range 1Y 8M - 10Y 1M	Not reported	Mean 5 Yrs 9 Mos Range 2Y 4M - 10Y 2.5M	Median 3Y 10 Mos Range 2Y 4 Mos - 8Y 10 M	Median 5Y Range 1 - 11 Y	Patrol: 1.5-7 years, mean 4 years ED: 2-7.5 years, mean 5 years SAR: 1-10 years, mean 5 years
Canine Weights	Mean 26 kg Range 14-36 kg	Mean 28 kg Range 18-41 kg	Not reported	Mean 32 kg Range 23-38 kg	Mean 36 kg Range 26-44 kg	Mean 31 ± 7 kg	Patrol 32-45kg; mean 39kg ED: 27-44kg; mean 34kg SAR: 16-45kg; mean 32 kg