

# 3M Public Health Preparedness : Demand Planning Tool

**Scenario :** “My public health department must plan to protect up to a thousand health care workers and first responders .”

Which Supplies Do I Need?

How Much Do I Need?

Who can provide a complete solution?

Does my plan adequately address my PPE needs?



The **3M Demand Planning tool** helps answer these questions, giving Public Health professionals the confidence to plan accurately.

## Model the Event

*Model your Organization's needs based on a scenarios builder analyzing potential nodes of consumption and staffing Requirements.*

Geographical Regions / Locations (based on demographics, workforce, etc.)	Patient Demographics			Staffing				
	Population	Number of Patients	Number of Adult Patients	Number of Pediatric Patients	Number of Primary Staff per 7 days	Number of Support Staff per 7 days	Total Primary Staff Shifts (for entire event)	Total Support Staff Shifts (for entire event)
<b>Total</b>	<b>4,078,000</b>	<b>4,078</b>	<b>3,670</b>	<b>408</b>	<b>1,903</b>	<b>5,709</b>	<b>342,552</b>	<b>1,027,656</b>
Northland	148,000	148	133	15	69	207	12,432	37,296
Waitemata	489,000	489	440	49	228	695	41,076	123,228
Auckland	424,000	424	382	42	198	594	35,616	108,848
Counties/Manukau	431,000	431	388	43	201	603	36,204	108,612
Waikato	339,000	339	305	34	158	475	28,476	85,428
Bay of Plenty	195,000	195	176	20	91	273	16,380	49,140
Lakes	102,000	102	92	10	48	143	8,568	25,704
Taranaki	105,000	105	95	11	49	147	8,820	26,460
Whangarei	64,000	64	58	6	30	90	5,376	16,128
Hawke's Bay	156,000	156	150	15	70	210	12,600	37,800
Tairāwhiti	45,000	45	41	5	21	63	3,780	11,340
Waairarapa	39,000	39	35	4	18	55	3,276	9,828
Midcentral	163,000	163	147	16	76	228	13,680	41,076
Capital & Coast	272,000	272	245	27	127	381	22,848	68,544
Hutt	138,000	138	124	14	64	193	11,592	34,776
Manawatu/Whanganui	133,000	133	120	13	62	186	11,172	33,516
West Coast	31,000	31	29	3	14	43	2,604	7,812
Canterbury	465,000	465	419	47	217	651	39,060	117,180
South Canterbury	54,000	54	49	5	25	76	4,536	13,608
Chgo	103,000	103	105	10	48	143	8,568	25,704
Southland	108,000	108	97	11	50	151	9,072	27,216



## Visualize Supply Needs

**3M™ Surge PPE Demand Planner Summary**

1- COLOMBIA Pandemic Simulation		Number of Kits Estimate	Respiratory Protection (e.g. N95)	PPE Testing Kits	Bulk Estimates			Eye Protection	Hand Antiseptics
Event Duration (days):	90				Powered Air Purifying Respirators	Battery	Caprioles		
Population:	10,202,916				Filter	Headpiece	Chargers		
<b>GRAND TOTAL</b>		0	0	2	163	190	326	4,198	435

---

**Scenario Builder**

<b>Event</b>	Event Duration	90 days
<b>Patients</b>	Daily Patient Surge	1,000,000 patients
	% Adults	70%
	% Pediatric	30%
<b>Primary Staff</b>	Time frame	7 days
	Primary Staff Typ	NA Guard / Conf/Close
	Patient/Staff Member/Staff or Staff Member / L/U/H/U/H-Header	U
	Shift Duration	12 hrs
<b>Support Staff</b>	Support Staff/Primary Staff	U

*Based on demographic data and profiles. (National, Local and area)*

**3M Demand Planning Tool** can be tailored to help your organization understand which products are needed and how much to allocate and budget for.

**Title :** Demand Planning Tool  
**Author Name:** Rafael Chaves MD,MBA  
**Affiliation:** 3M Company  
**Defined Topic:** Business Planning Efforts  
**Contact Information:** [rchaves@mmm.com](mailto:rchaves@mmm.com)  
[elscott@mmm.com](mailto:elscott@mmm.com)