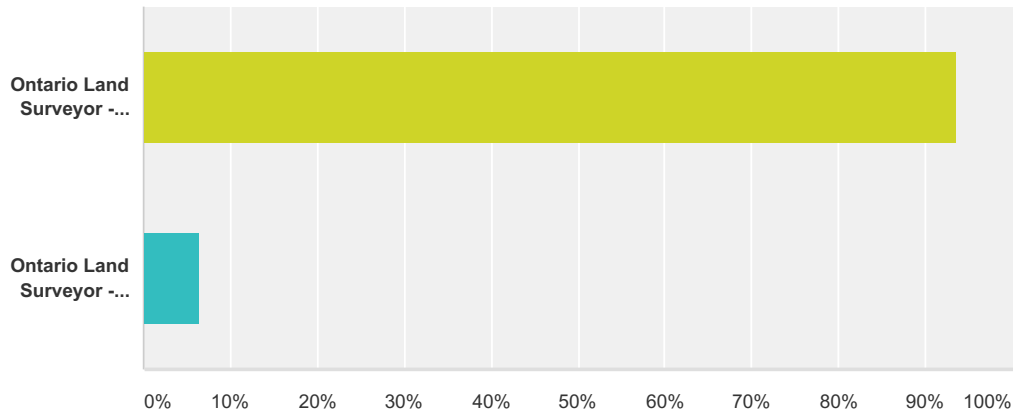


Q1 Please indicate which one of the categories defines your current status:

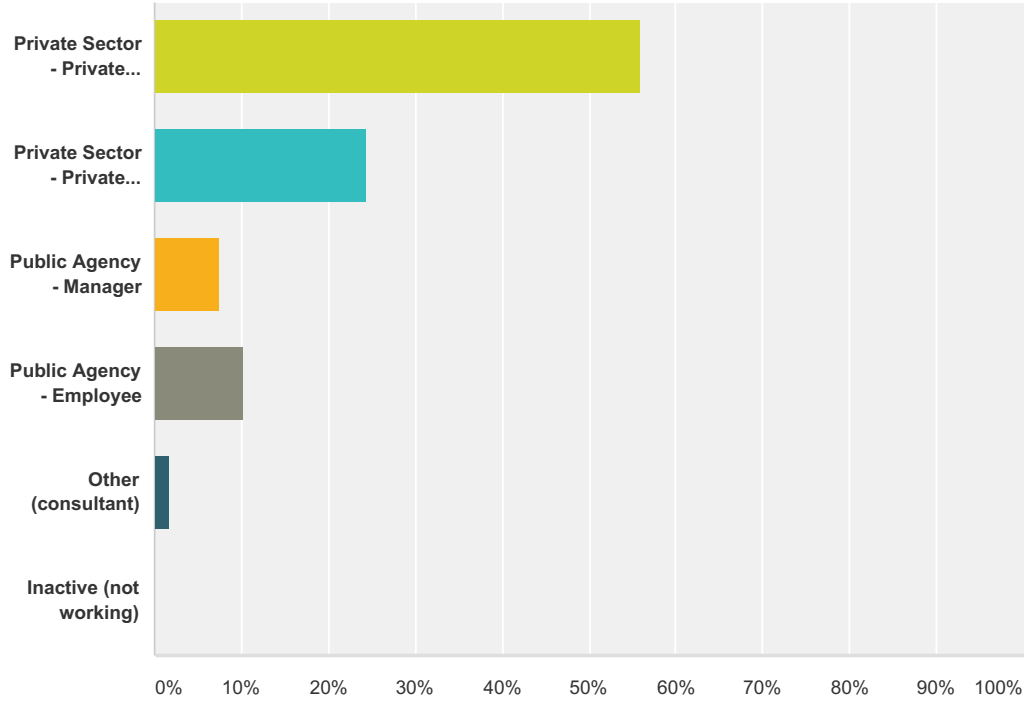
Answered: 185 Skipped: 2



Answer Choices	Responses	
Ontario Land Surveyor - Licensed Member (Cadastral)	93.51%	173
Ontario Land Surveyor - Registered Member (Non Cadastral)	6.49%	12
Total		185

Q2 Please indicate which one of the following groups defines your employment status:

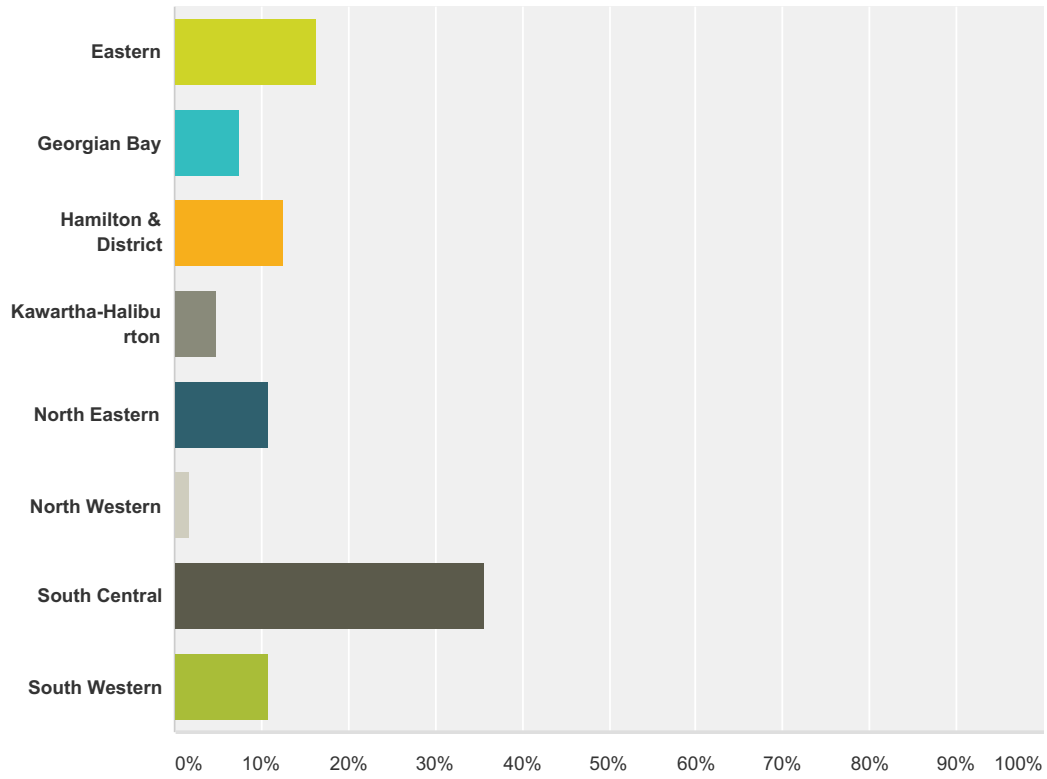
Answered: 184 Skipped: 3



Answer Choices	Responses
Private Sector - Private Practice Owner/Partner	55.98% 103
Private Sector - Private Practice Employee	24.46% 45
Public Agency - Manager	7.61% 14
Public Agency - Employee	10.33% 19
Other (consultant)	1.63% 3
Inactive (not working)	0.00% 0
Total	184

Q3 Please identify the Regional Group to which you associate yourself

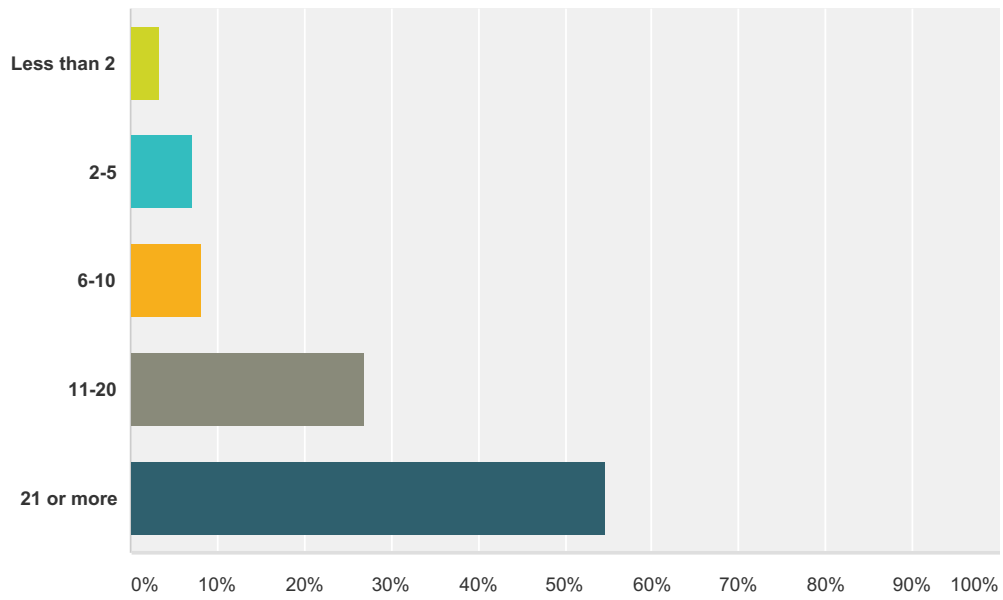
Answered: 185 Skipped: 2



Answer Choices	Responses	Count
Eastern	16.22%	30
Georgian Bay	7.57%	14
Hamilton & District	12.43%	23
Kawartha-Haliburton	4.86%	9
North Eastern	10.81%	20
North Western	1.62%	3
South Central	35.68%	66
South Western	10.81%	20
Total		185

Q4 How many years have you been commissioned?

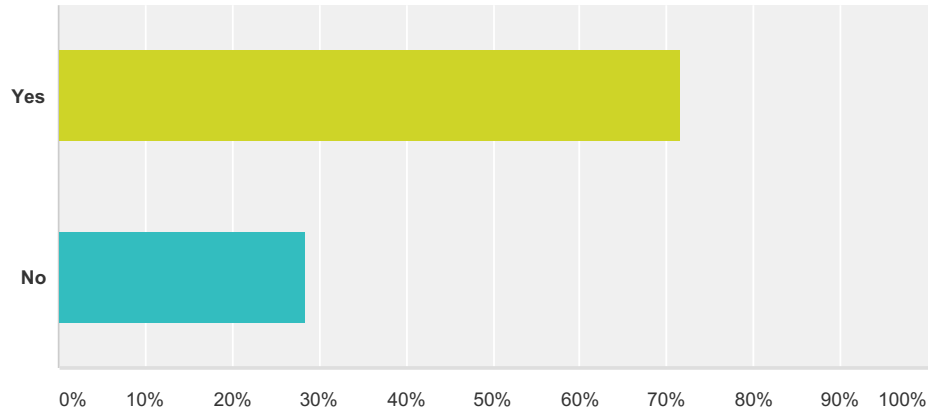
Answered: 185 Skipped: 2



Answer Choices	Responses
Less than 2	3.24% 6
2-5	7.03% 13
6-10	8.11% 15
11-20	27.03% 50
21 or more	54.59% 101
Total	185

Q5 Are you aware that EDM Calibration Baselines established by the MNRF exist or previously existed in Barrie, Belleville, Burlington, Lindsay, London, Mississauga, Conestogo (Waterloo), Scarborough, Thunder Bay, Toronto (Don Valley), and Toronto (Downsview)?

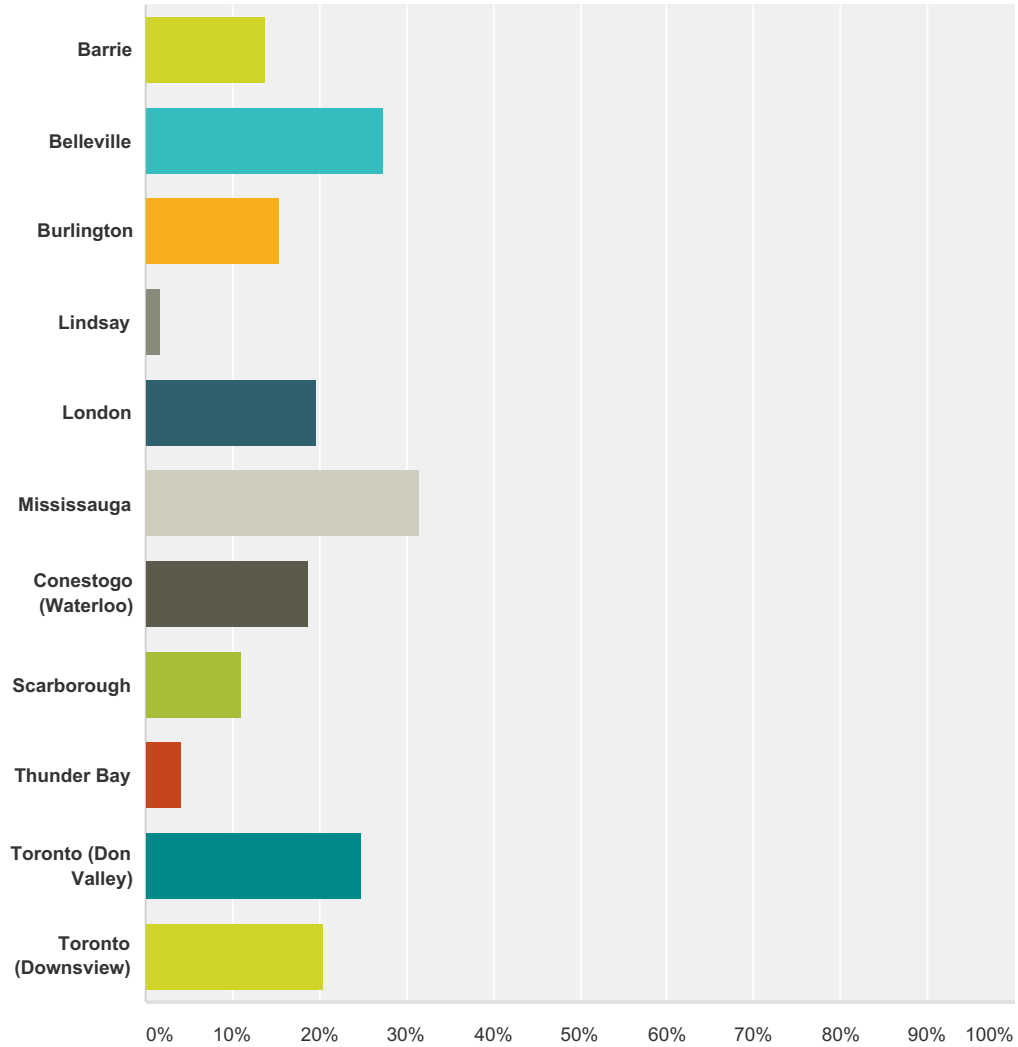
Answered: 166 Skipped: 21



Answer Choices	Responses
Yes	71.69% 119
No	28.31% 47
Total	166

Q6 If you answered "Yes" to the previous question, which locations were you aware of? (Check all that apply)

Answered: 117 Skipped: 70



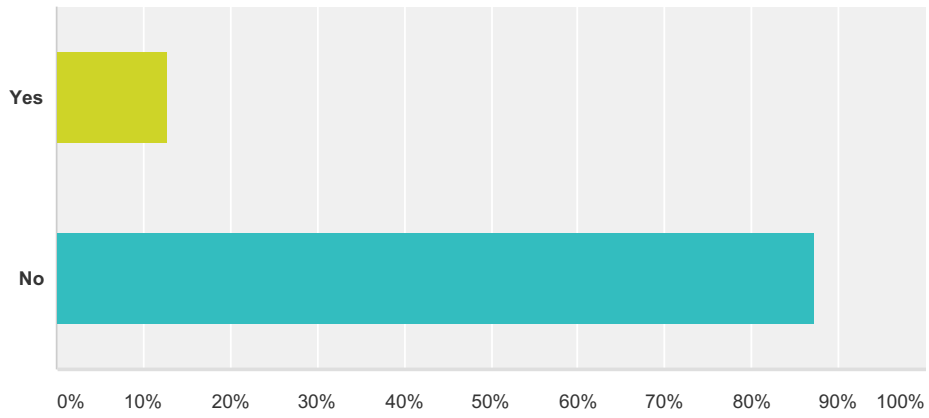
Answer Choices	Responses
Barrie	13.68% 16
Belleville	27.35% 32
Burlington	15.38% 18
Lindsay	1.71% 2
London	19.66% 23
Mississauga	31.62% 37
Conestogo (Waterloo)	18.80% 22
Scarborough	11.11% 13

Calibration Baseline Survey

Thunder Bay	4.27%	5
Toronto (Don Valley)	24.79%	29
Toronto (Downsview)	20.51%	24
Total Respondents: 117		

Q7 Do you currently make use of any of these EDM Calibration Baselines?

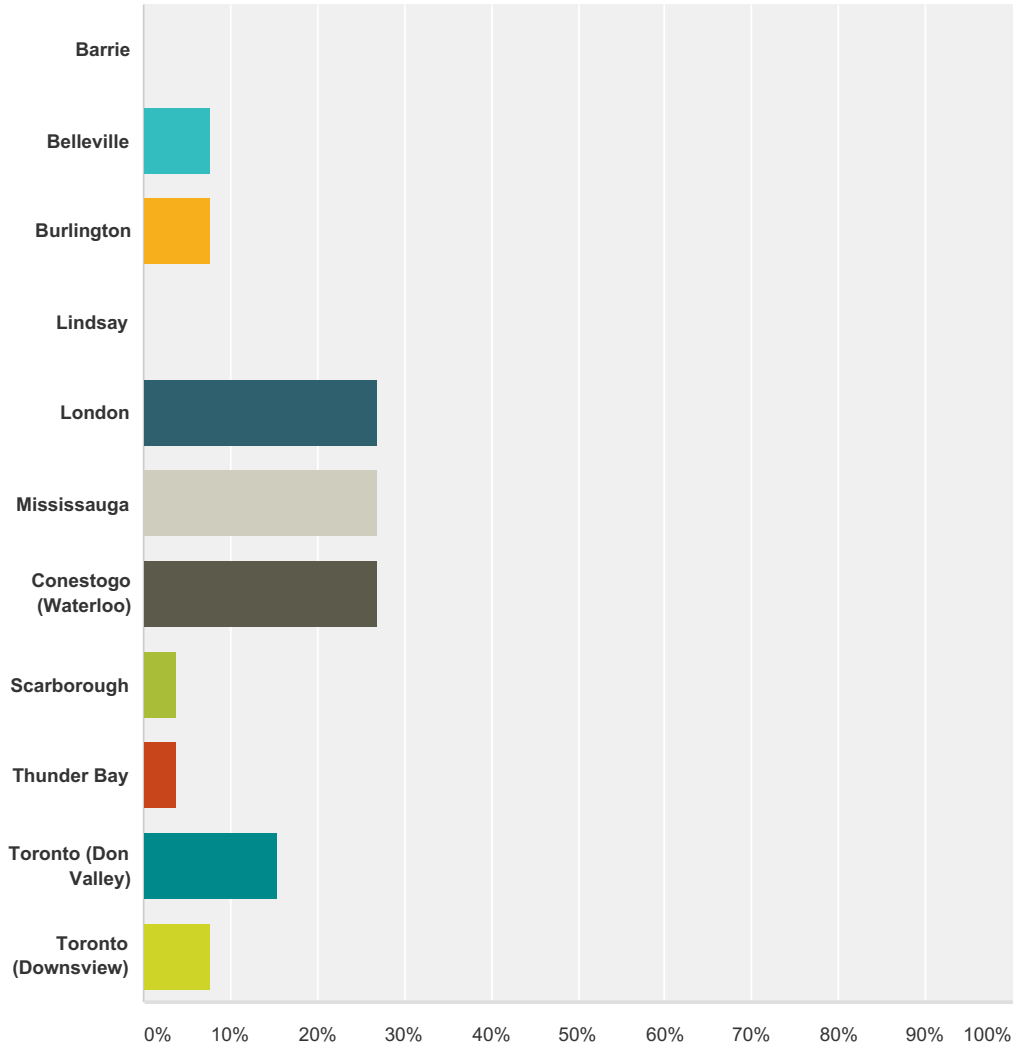
Answered: 166 Skipped: 21



Answer Choices	Responses
Yes	12.65% 21
No	87.35% 145
Total	166

Q8 IF you currently make use of any of these EDM Calibration Baselines, which locations? (Check all that apply)

Answered: 26 Skipped: 161



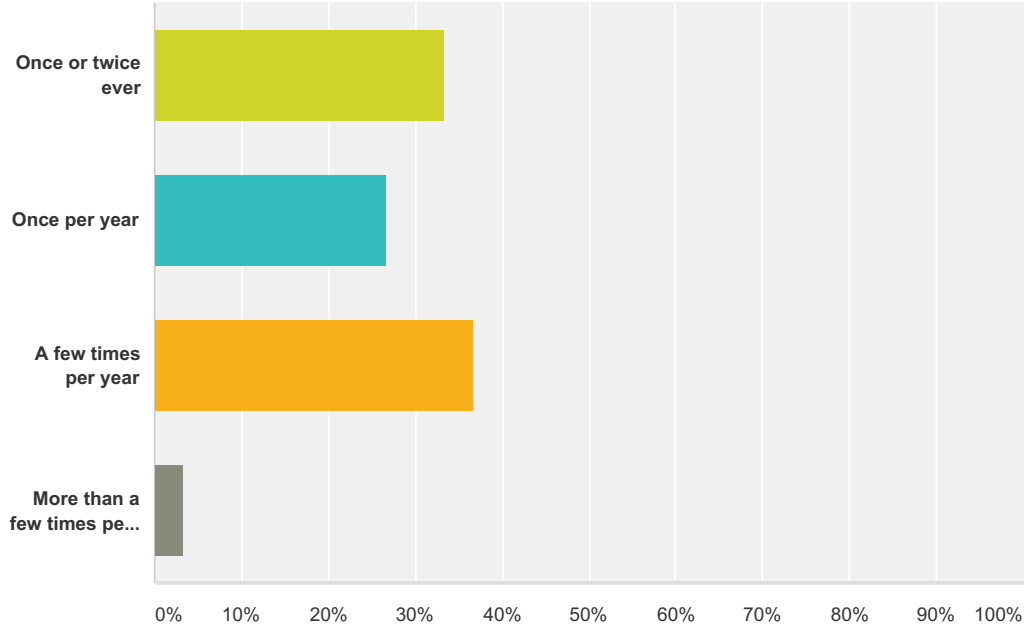
Answer Choices	Responses
Barrie	0.00% 0
Belleville	7.69% 2
Burlington	7.69% 2
Lindsay	0.00% 0
London	26.92% 7
Mississauga	26.92% 7
Conestogo (Waterloo)	26.92% 7
Scarborough	3.85% 1

Calibration Baseline Survey

Thunder Bay	3.85%	1
Toronto (Don Valley)	15.38%	4
Toronto (Downsview)	7.69%	2
Total Respondents: 26		

Q9 IF you currently make use of any of these EDM Calibration Baselines, how frequently?

Answered: 30 Skipped: 157



Answer Choices	Responses
Once or twice ever	33.33% 10
Once per year	26.67% 8
A few times per year	36.67% 11
More than a few times per year	3.33% 1
Total	30

Calibration Baseline Survey

Q10 If you DON'T currently make use of any of these EDM Calibration Baselines, why?

Answered: 124 Skipped: 63

#	Responses	Date
1	Assume total stations are calibrated when sent in for service	10/15/2015 9:19 PM
2	Provider support	10/15/2015 8:23 PM
3	dealer does this task	10/15/2015 2:56 PM
4	All of our total stations and GPS are send to Cansel each February for full service, alignment and calibration	10/15/2015 12:29 PM
5	3 hour drive each way	10/14/2015 4:38 PM
6	Not aware of the locations	10/14/2015 3:48 PM
7	I'm primarily cadastral, not geodetic or precise control	10/14/2015 3:26 PM
8	No need - use 3-D static GPS connections based on existing statione and/or PPP fixes	10/14/2015 2:44 PM
9	We used to use the National Geodetic Baseline in Ottawa, which is not on your listing	10/14/2015 2:13 PM
10	EDMs calibrated during maintenance service	10/14/2015 11:57 AM
11	Established my own small baseline	10/14/2015 11:53 AM
12	We understood that these baselines have not been maintained for several years	10/14/2015 10:22 AM
13	Better modern equipment, periods between calibrations are less. All instruments are less than 3 years old.	10/14/2015 10:19 AM
14	Not required for our business	10/14/2015 10:06 AM
15	not my practise focus	10/14/2015 9:59 AM
16	Currently not involved in coordinating and managing field surveys	10/14/2015 9:58 AM
17	never found our EDMs that out of calibration and we have our equipment serviced every three years at Leica and this calibration is taken care of during this process	10/14/2015 9:51 AM
18	Use our own.	10/14/2015 9:38 AM
19	No valid reason.	10/14/2015 9:34 AM
20	With GPS (Cannet) we do not find it necessary. We have control points on all projects that can be used as a local check of equipment.	10/14/2015 9:32 AM
21	there is none in Ottawa	10/14/2015 9:26 AM
22	I am employed at Loyalist College and once a year we send all of our equipment out to be serviced and calibrated.	10/14/2015 9:09 AM
23	I get my total station maintained once a year by Sokkia	10/14/2015 9:00 AM
24	Did not know where they wre located.	10/14/2015 8:57 AM
25	Who calibrates EDM's?	10/14/2015 8:57 AM
26	We have a regular maintainence program in place	10/14/2015 8:47 AM
27	We use our own baseline and testing	10/14/2015 8:45 AM
28	Have calibrated our own baseline	10/14/2015 8:43 AM
29	not local	10/14/2015 8:38 AM
30	Proximity	10/14/2015 8:33 AM
31	didn't think Waterloo's was still usable	10/14/2015 8:32 AM
32	unaware	10/14/2015 8:29 AM
33	not easily accessible- on hwy 401	10/14/2015 8:27 AM

Calibration Baseline Survey

34	using calibrated equipment based on regular service and results regularly confirmed by ties to existing control networks	10/14/2015 8:25 AM
35	Use NrCan base line in Ottawa	10/14/2015 8:21 AM
36	not trained to use of EDM Calibration Baseline	10/14/2015 8:20 AM
37	We send the Equipment to Leica for Calibration	10/14/2015 8:20 AM
38	Not local enough	10/14/2015 8:17 AM
39	unsure of reliability	10/14/2015 8:15 AM
40	Not living or working nearby any of these	10/14/2015 8:12 AM
41	don't know if they're still maintained	10/14/2015 8:10 AM
42	Location	10/14/2015 8:10 AM
43	we manage private sector contractors	10/14/2015 8:09 AM
44	Rely on Equipment Manufacturer	10/14/2015 8:06 AM
45	Very rarely complete field work	10/13/2015 9:45 AM
46	Unaware they existed	10/13/2015 9:18 AM
47	have our own lines	10/11/2015 1:02 PM
48	Too far	10/10/2015 4:21 PM
49	None in North Bay area	10/9/2015 8:44 AM
50	Currently practice Outside of Ontario	10/8/2015 11:55 AM
51	Too far away	10/7/2015 6:42 PM
52	In Consulting Business and outsource Survey activities.	10/7/2015 11:35 AM
53	I have my equipment serviced regularly.	10/7/2015 8:25 AM
54	We have our instruments calibrated by our supplier	10/7/2015 7:49 AM
55	EDM is serviced by manufacture	10/6/2015 8:12 PM
56	Cant view from one to another because of brush and berms put in by MTO	10/6/2015 4:23 PM
57	We trust the equipment and have not seen a problem when comparing EDM to GPS	10/6/2015 2:31 PM
58	They are inconvenient and somewhat difficult to use	10/6/2015 12:31 PM
59	If I used the Baseline and found the Instrument was out, I would send it to be 're-calibrated'. Instead, we have our instruments checked every year, two at the most. If they need to be re-calibrated, it is done on the spot. Saves a trip to the baseline.	10/6/2015 8:52 AM
60	not in my area	10/6/2015 8:48 AM
61	NOTE AWARE IF THEY ARE EXISTED	10/6/2015 8:45 AM
62	Use the federal baseline in Ottawa	10/6/2015 7:04 AM
63	Never heard of them before.	10/5/2015 10:38 PM
64	annual servicing of instruments also have themcalibrated	10/5/2015 8:59 PM
65	nots maintained	10/5/2015 7:40 PM
66	we employ GPS for most of our work and do not use our total stations much	10/5/2015 6:54 PM
67	They seem to be a bit of a relic. Modern technology makes them irrelevant.	10/5/2015 4:32 PM
68	timing and unaware of location	10/5/2015 3:30 PM
69	Send into our equipment supplier for quarterly calibration. Have on-site baseline that we measure all 12 instruments against to confirm calibration and identify outliers	10/5/2015 3:00 PM
70	Don't know their location	10/5/2015 2:59 PM

Calibration Baseline Survey

71	My understanding is that the new EDM's either work or they do not. There is no inbetween. If there is a measurement issue it probably has to do with the prism constant or a scale factor.	10/5/2015 2:54 PM
72	I leave callibration to the manufacturer	10/5/2015 2:53 PM
73	no longer in these areas	10/5/2015 2:51 PM
74	Thought that they had already been lost, but am glad to hear they have survived.	10/5/2015 2:12 PM
75	Not required for job function	10/5/2015 2:08 PM
76	Need for use rarely comes up. But, recently the need HAS come up (calculating precise tunnel control network)	10/5/2015 2:06 PM
77	Don't work in that region	10/5/2015 2:04 PM
78	to far away	10/5/2015 1:55 PM
79	we have our own baselines	10/5/2015 1:47 PM
80	too far away from Ottawa	10/5/2015 1:43 PM
81	GPS we have own calibration point and total station make use of existing survey lines	10/5/2015 1:37 PM
82	No field work	10/5/2015 1:24 PM
83	We outsource to private surveyors	10/5/2015 1:13 PM
84	didnt know about them	10/5/2015 1:10 PM
85	Too far from office	10/5/2015 12:48 PM
86	Work in Ottawa Feds have one on Carling	10/5/2015 12:28 PM
87	I didn't know there were any locally.	10/5/2015 12:20 PM
88	Have frequent comparisons with older work and other firms control that are very very close as well as having equipment serviced annually	10/5/2015 12:16 PM
89	Too far away	10/5/2015 12:11 PM
90	Not needed anymore with the type of technologies we use today.	10/5/2015 12:11 PM
91	have established are own	10/5/2015 12:11 PM
92	Calibrations are done by paying for certified technicians to complete.	10/5/2015 12:11 PM
93	WE have set up our own baselines that we use to test our equipment.	10/5/2015 12:09 PM
94	We have our own established base lines at the office	10/5/2015 12:09 PM
95	We used to use the Burlington one. But we have not seen any need for verification lately.	10/5/2015 12:07 PM
96	Using factory service to provide calibraton	10/5/2015 12:07 PM
97	Lack of current information on Baselines	10/5/2015 12:07 PM
98	I only knew of the one in Scarborough, which I was told is overgrown and fallen into disuse.	10/5/2015 12:06 PM
99	do not believe it is necessary	10/5/2015 12:04 PM
100	Wasn't aware they existed.	10/5/2015 12:03 PM
101	I am not involved in surveying.	10/5/2015 12:00 PM
102	Lack of in-house field crews, and minimal field checking	10/5/2015 11:59 AM
103	supplier calibrates equipment on regular service	10/5/2015 11:58 AM
104	Not taking EDM measurements	10/5/2015 11:57 AM
105	anaware of it's existence.	10/5/2015 11:56 AM
106	not needed - comparisons with previous measurements, existing HCM's and GPS seem to suffice - at least to the level of accuracy required under the act and regulations	10/5/2015 11:54 AM
107	equipment is frequently serviced, have never encountered problems with measurements	10/5/2015 11:53 AM
108	TOO FAR.	10/5/2015 11:53 AM
109	Have manufacturer calibrate instruments each year.	10/5/2015 11:53 AM

Calibration Baseline Survey

110	Out of Province!	10/5/2015 11:53 AM
111	Too far removed from our job areas. Our firm set up local baselines so we can test our equipment more frequently.	10/5/2015 11:52 AM
112	No reason, probably should use them.	10/5/2015 11:51 AM
113	located too far away	10/5/2015 11:50 AM
114	irrelevant	10/5/2015 11:50 AM
115	We engage in large projects, using a combination of TS, GPS and aerial technology, as well as software to assess our accuracy/error measurements.	10/5/2015 11:49 AM
116	Not necessary	10/5/2015 11:49 AM
117	use GPS for larger projects (ie. long distances). mOST TOTAL STATION (edm) WORK IS WITHIN 100-150M	10/5/2015 11:49 AM
118	Distance and reliance on GNSS	10/5/2015 11:49 AM
119	did not know they still existed	10/5/2015 11:48 AM
120	current technology	10/5/2015 11:48 AM
121	In my current position, I don't need to.	10/5/2015 11:48 AM
122	GPS.....	10/5/2015 11:47 AM
123	All field surveys are performed by outside contract staff.	10/5/2015 11:46 AM
124	Reportedly damaged. Now probably completely destroyed by new construction.	10/5/2015 11:46 AM

Calibration Baseline Survey

Q11 What are you doing to calibrate or verify your equipment performance?

Answered: 132 Skipped: 55

#	Responses	Date
1	Monitored against GPS observations	10/15/2015 9:19 PM
2	Manufacturer calibration	10/15/2015 8:23 PM
3	please ask dealer	10/15/2015 2:56 PM
4	see above	10/15/2015 12:29 PM
5	Checking in with known points	10/14/2015 4:38 PM
6	Using existing HCMs in the area.	10/14/2015 3:48 PM
7	gps v. edm on long baselines serves as an excellent check. also periodic equipment maintenance/adjustment.	10/14/2015 3:26 PM
8	See #10 above	10/14/2015 2:44 PM
9	We now have a shorter baseline that we've established outside our office	10/14/2015 2:13 PM
10	Regular checks on our own baseline	10/14/2015 11:57 AM
11	regular maintenance and calibration by equipment provider.Check against own baseline	10/14/2015 11:53 AM
12	We send our equipment back to the manufacturer	10/14/2015 10:22 AM
13	Field testing, and manufacturer calibrations.	10/14/2015 10:19 AM
14	Calibration on existing monuments on a per job basis	10/14/2015 10:06 AM
15	Manufacturer calibrates equipment (Leica)	10/14/2015 9:58 AM
16	Equipment calibration and verification of operating parameters is responsibility of contracted surveyors	10/14/2015 9:58 AM
17	please see above	10/14/2015 9:51 AM
18	Use our own. Annual supplier certifications.	10/14/2015 9:38 AM
19	Regular maintenance with the manufacturer/dealer and local control points.	10/14/2015 9:36 AM
20	Checks against previous work ie: cc's. Checks against gps ppp stations.	10/14/2015 9:34 AM
21	Equipment is verified daily as we are working off controlled jobs tied into Geodetic Control	10/14/2015 9:32 AM
22	used to use the Geodetic Survey of Canada baseline on Corkstown Rd. in Kanata (Ottawa)	10/14/2015 9:26 AM
23	See above	10/14/2015 9:09 AM
24	Sokkia	10/14/2015 9:00 AM
25	Manufacturer calibration and our own local baseline	10/14/2015 8:57 AM
26	Nothing	10/14/2015 8:57 AM
27	Regular adjustment and testing at source	10/14/2015 8:47 AM
28	In house baseline testing, collimation checks, checks between gps and Total Station	10/14/2015 8:45 AM
29	HCM GPS checks, service (maintenance) checks	10/14/2015 8:43 AM
30	Private baseline	10/14/2015 8:38 AM
31	total station EDMs	10/14/2015 8:36 AM
32	we have our own baseline but could use a more standardized one	10/14/2015 8:33 AM
33	comparing measurements to previously published plans	10/14/2015 8:32 AM
34	our own baselines from a certified steel tape	10/14/2015 8:29 AM

Calibration Baseline Survey

35	Generally have local instrument service department service and calibrate the equipment.	10/14/2015 8:27 AM
36	self check against other equipment and known points	10/14/2015 8:27 AM
37	regular servicing and checks against existing published control network points	10/14/2015 8:25 AM
38	I do calibrate the instrument before starting to work	10/14/2015 8:20 AM
39	We send the Equipment to Leica for Calibration	10/14/2015 8:20 AM
40	own baseline and control points	10/14/2015 8:17 AM
41	Regular maintenance	10/14/2015 8:15 AM
42	Currently nothing except the odd peg test	10/14/2015 8:12 AM
43	field checks and repetition	10/14/2015 8:10 AM
44	Regular servicing	10/14/2015 8:10 AM
45	Monthly equipment tests	10/14/2015 8:06 AM
46	check on known monuments	10/13/2015 9:45 AM
47	Periodic checks	10/13/2015 9:18 AM
48	have our own lines	10/11/2015 1:02 PM
49	Have used a federal baseline in Ottawa and have also used my own	10/10/2015 4:21 PM
50	We created our own base line. For many years our surveys have been integrated and we verify our measurements with the control information.	10/9/2015 8:44 AM
51	periodically check EDM against known reference points	10/7/2015 6:42 PM
52	checking into existing control	10/7/2015 4:12 PM
53	Third Party Survey Companies is mandated to calibrate their equipment by contract	10/7/2015 11:35 AM
54	Equipment is serviced annually.	10/7/2015 8:25 AM
55	we have a baseline at each office to verify performance	10/7/2015 7:49 AM
56	Year servicing of equipment	10/6/2015 8:12 PM
57	Regular maintenance by our supplier	10/6/2015 4:23 PM
58	Compare EDM work to GPS	10/6/2015 2:31 PM
59	We compare to RTK data	10/6/2015 12:31 PM
60	See 10 above.	10/6/2015 8:52 AM
61	BY RETAILER	10/6/2015 8:45 AM
62	Equipment is checked by repair depot 12-18 months or when results are inconsistent.	10/6/2015 7:10 AM
63	use the baseline in Ottawa. Rely on manufacturer to check calibration when sent for maintenance.	10/6/2015 7:04 AM
64	Measuring distances with multiple instruments to verify them.	10/5/2015 10:54 PM
65	We have premise monuments set up in front of our building for when we need to do a quick check. We get the dealer to check it over yearly.	10/5/2015 10:38 PM
66	annual servicing and calibration	10/5/2015 8:59 PM
67	using previously calibrated points	10/5/2015 7:40 PM
68	periodic calibration by manufacturer/supplier	10/5/2015 6:54 PM
69	control points	10/5/2015 6:53 PM
70	We use standard procedures as recommended by the manufacturers.	10/5/2015 4:32 PM
71	check with other equipment and run equipment calibrations	10/5/2015 3:30 PM
72	quarterly supplier calibration, monthly local calibration	10/5/2015 3:00 PM
73	Occupy a known HCM point	10/5/2015 2:59 PM

Calibration Baseline Survey

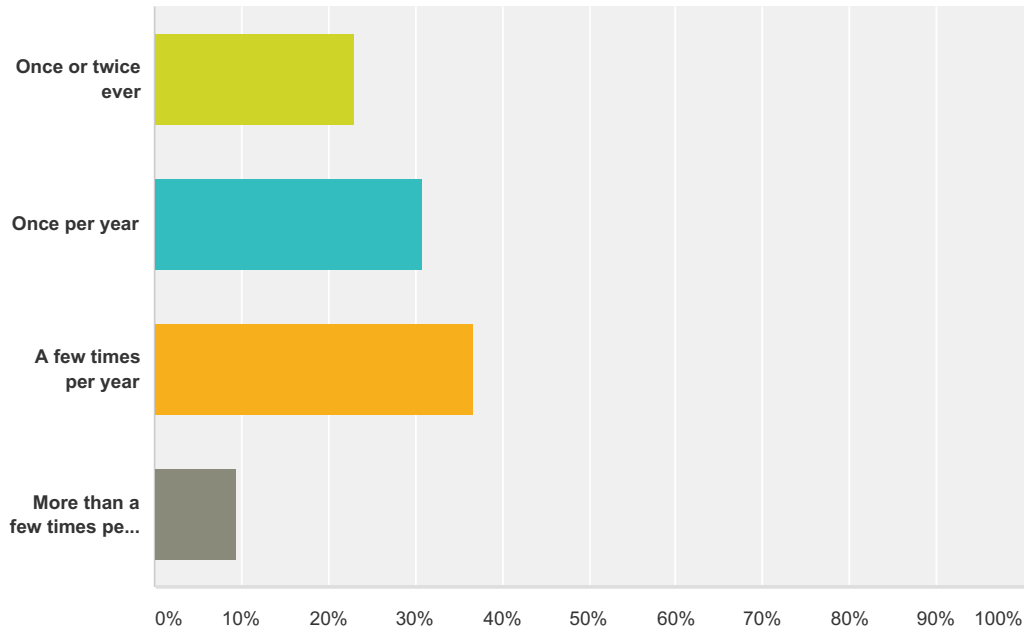
74	We have a baseline at our office that we have set up to check equipment from time to time.	10/5/2015 2:54 PM
75	Send to manufacturer	10/5/2015 2:53 PM
76	regular maintenance	10/5/2015 2:51 PM
77	Baseline maintained by our firm and manufacturer equipment esting.	10/5/2015 2:12 PM
78	We use the Conestogo Base Line	10/5/2015 2:08 PM
79	Not applicable	10/5/2015 2:08 PM
80	On board calibration routines, for static GPS: occupations on higher class CSRS points, use of NGS Absolute antenna calibrations	10/5/2015 2:06 PM
81	Cansel	10/5/2015 2:04 PM
82	we have our own check points	10/5/2015 1:55 PM
83	use our own baselines or send to manufacture to calibrate	10/5/2015 1:47 PM
84	Local on site baseline	10/5/2015 1:43 PM
85	Send into survey manufacturer for calibration once a year	10/5/2015 1:41 PM
86	Verify against office GPS stattions	10/5/2015 1:37 PM
87	Run the calibration software that comes with our EDM	10/5/2015 1:29 PM
88	send to manufacturer	10/5/2015 1:10 PM
89	send the equipment out for servicing and calibration	10/5/2015 12:51 PM
90	office baseline	10/5/2015 12:48 PM
91	We use the one on Carling	10/5/2015 12:28 PM
92	EDM Baselines	10/5/2015 12:24 PM
93	I rely on the manufacture's service people	10/5/2015 12:20 PM
94	Frequent redundant measurements to static control points	10/5/2015 12:16 PM
95	check between our own instruments both total station and GPS and other control points	10/5/2015 12:11 PM
96	Actual Project Site calibration under the same conditions as the project operations.	10/5/2015 12:11 PM
97	check and use are own base line	10/5/2015 12:11 PM
98	Have our service technicians take care of them so that we can concentrate on getting survey work completed.	10/5/2015 12:11 PM
99	Daily testing of GPS equipment against our internal baselines, plus regular checks with total stations. We also have a very regular program for equipment maintenance that keeps equipment in good order.	10/5/2015 12:09 PM
100	Regular checks on our own base line	10/5/2015 12:09 PM
101	We use verification by closures, independent measurements and comparisons to GPS data.	10/5/2015 12:07 PM
102	Servicing	10/5/2015 12:07 PM
103	Local control points	10/5/2015 12:07 PM
104	We have our own (very short) baseline near our office that we can check against, and we send our equipment back to the manufacturer once in a while for maintenance and calibration.	10/5/2015 12:06 PM
105	I use the baseline in Conestogo	10/5/2015 12:05 PM
106	Total Station verification. Static GPS verification.	10/5/2015 12:04 PM
107	internal comparisons	10/5/2015 12:04 PM
108	Regular service	10/5/2015 12:03 PM
109	depending on the age and technology of the equipment, calibration may be done off-site through a Survey Equipment service provider	10/5/2015 11:59 AM
110	supplier calibrates equipment on regular service	10/5/2015 11:58 AM
111	N/A	10/5/2015 11:57 AM

Calibration Baseline Survey

112	scheduled maintenance, and own baselines observations	10/5/2015 11:56 AM
113	Observing baseline lengths, GPS observations, Manufacturer tests and adjustments.	10/5/2015 11:56 AM
114	see above. calibration happens in the shop. verification as above - Q-10.	10/5/2015 11:54 AM
115	frequent service, daily comparison of measurements against wide variety (by other firms and against non-edm and edm measuremnts) of survey measurements	10/5/2015 11:53 AM
116	IN-HOUSE / LOCAL BASE LINE & YEARLY MAINTENANCE FROM SUPPLIER	10/5/2015 11:53 AM
117	Manufacturuer annual check up	10/5/2015 11:53 AM
118	Using local (to Edmonton) baselines	10/5/2015 11:53 AM
119	Internal baseline checks	10/5/2015 11:52 AM
120	Depending on manufacturers maintenance.	10/5/2015 11:51 AM
121	Check into cosine points, however, most of our work is now done with RTK and/or static GPS	10/5/2015 11:50 AM
122	baseline measurements	10/5/2015 11:50 AM
123	Checking against other types of tech, analysing results through software, measuring against known control.	10/5/2015 11:49 AM
124	compare with known distances	10/5/2015 11:49 AM
125	established our own baseline at the office parking lot	10/5/2015 11:49 AM
126	comparison with GNSS values	10/5/2015 11:49 AM
127	using in house verified baselines	10/5/2015 11:48 AM
128	daily checks into published monuments or ppp	10/5/2015 11:48 AM
129	N/A	10/5/2015 11:48 AM
130	We have our own baselines	10/5/2015 11:47 AM
131	Equipment verification is the resposibility of the contractor.	10/5/2015 11:46 AM
132	n/a	10/5/2015 11:46 AM

Q12 How frequently would you estimate that you would make use of an EDM Calibration Baseline if it were conveniently located and known to be in good condition?

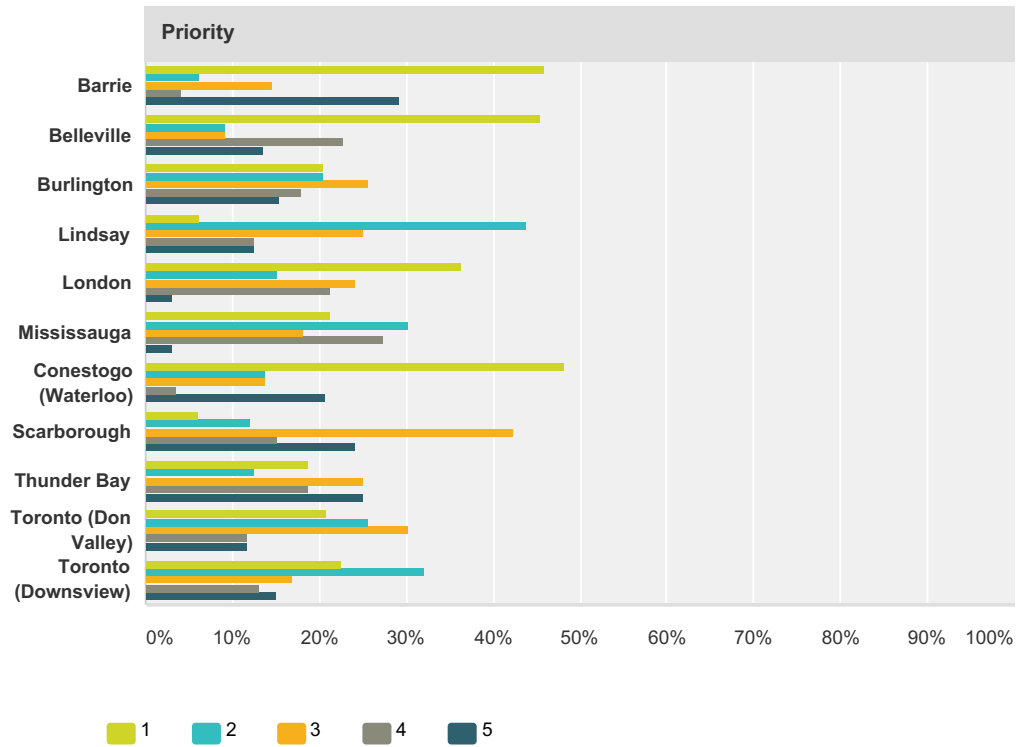
Answered: 139 Skipped: 48



Answer Choices	Responses
Once or twice ever	23.02% 32
Once per year	30.94% 43
A few times per year	36.69% 51
More than a few times per year	9.35% 13
Total	139

Q13 All of the above-mentioned EDM Calibration Baselines were last measured in the mid-1990s and many are in a state of poor maintenance or destroyed. Please prioritize the top 5 existing sites you would like to see rehabilitated.

Answered: 106 Skipped: 81



Priority	1	2	3	4	5	Total
Barrie	45.83% 22	6.25% 3	14.58% 7	4.17% 2	29.17% 14	48
Belleville	45.45% 10	9.09% 2	9.09% 2	22.73% 5	13.64% 3	22
Burlington	20.51% 8	20.51% 8	25.64% 10	17.95% 7	15.38% 6	39
Lindsay	6.25% 1	43.75% 7	25.00% 4	12.50% 2	12.50% 2	16
London	36.36% 12	15.15% 5	24.24% 8	21.21% 7	3.03% 1	33
Mississauga	21.21% 14	30.30% 20	18.18% 12	27.27% 18	3.03% 2	66
Conestogo (Waterloo)	48.28% 14	13.79% 4	13.79% 4	3.45% 1	20.69% 6	29

Calibration Baseline Survey

Scarborough	6.06% 2	12.12% 4	42.42% 14	15.15% 5	24.24% 8	33
Thunder Bay	18.75% 3	12.50% 2	25.00% 4	18.75% 3	25.00% 4	16
Toronto (Don Valley)	20.93% 9	25.58% 11	30.23% 13	11.63% 5	11.63% 5	43
Toronto (Downsview)	22.64% 12	32.08% 17	16.98% 9	13.21% 7	15.09% 8	53

Calibration Baseline Survey

Q14 Do you have a suggested location (exact or general) where a new EDM Calibration site should be established?

Answered: 76 Skipped: 111

#	Responses	Date
1	Huntsville	10/15/2015 9:19 PM
2	Woodstock	10/15/2015 8:22 PM
3	Trenton	10/15/2015 12:35 PM
4	Ottawa	10/14/2015 4:38 PM
5	None	10/14/2015 3:48 PM
6	No	10/14/2015 2:44 PM
7	Hamilton Area- Would cover Niagara peninsula and points west	10/14/2015 11:53 AM
8	Ottawa area	10/14/2015 10:22 AM
9	Windsor	10/14/2015 10:19 AM
10	Milton	10/14/2015 10:02 AM
11	in growing markets?	10/14/2015 9:59 AM
12	No	10/14/2015 9:58 AM
13	no, all present locations should do the job	10/14/2015 9:51 AM
14	No	10/14/2015 9:32 AM
15	I am no longer in the private sector but if baselines are still required I recommend that you take over the one situated in Kanata and that appears to be no longer maintained by the Federal.	10/14/2015 9:26 AM
16	Huntsville for this area	10/14/2015 9:00 AM
17	newmarket	10/14/2015 8:57 AM
18	Are they ever used?	10/14/2015 8:57 AM
19	Orillia	10/14/2015 8:47 AM
20	Bradford Keswick	10/14/2015 8:43 AM
21	no - existing sites are enough if maintained	10/14/2015 8:36 AM
22	Northern Ontario	10/14/2015 8:33 AM
23	No	10/14/2015 8:27 AM
24	kingston	10/14/2015 8:27 AM
25	sudbury/north bay area	10/14/2015 8:25 AM
26	none	10/14/2015 8:20 AM
27	Downsview is Satisfactory	10/14/2015 8:20 AM
28	Ottawa region	10/14/2015 8:17 AM
29	Sudbury has a local baseline that could be incorporated	10/14/2015 8:12 AM
30	vaughan	10/14/2015 8:10 AM
31	Ottawa	10/14/2015 8:10 AM
32	North Bay - Sudbury	10/9/2015 8:44 AM
33	N/A	10/7/2015 11:35 AM

Calibration Baseline Survey

34	Middlesex /Oxford /Elgin / Norfolk Areas	10/7/2015 8:33 AM
35	no	10/7/2015 8:25 AM
36	none	10/7/2015 7:49 AM
37	Near a Cansel office/service facility	10/6/2015 12:31 PM
38	niagara	10/6/2015 8:48 AM
39	No however I make the following comment. Surveyor's should have documented evidence at least every 2 years that equipment has been certified by either Technical rep of manufacturer and/or field records of use of Base line. Should be part of Standards.	10/6/2015 7:10 AM
40	Ottawa baseline no longer maintained by Federal Government. Could be taken over by the Province.	10/6/2015 7:04 AM
41	No	10/5/2015 10:54 PM
42	How long do these need to be? We have a 30m one on our front lawn.	10/5/2015 10:38 PM
43	no	10/5/2015 7:40 PM
44	none	10/5/2015 4:32 PM
45	no	10/5/2015 3:00 PM
46	Central GTA such as Richmond Hill	10/5/2015 2:12 PM
47	At a safe, level place with the tiered local municipalities and utilities understanding what they mean and how they are not to interfere with them as pursuant to the Criminal Code of Canada these base lines are used to verify boundary markers XXXXXXXX Interfering with boundary lines 442. Every one who wilfully pulls down, defaces, alters or removes anything planted or set up as the boundary line or part of the boundary line of land is guilty of an offence punishable on summary conviction. R.S., c. C-34, s. 398. Interfering with international boundary marks, etc. 443. (1) Every one who wilfully pulls down, defaces, alters or removes (a) a boundary mark lawfully placed to mark any international, provincial, county or municipal boundary, or (b) a boundary mark lawfully placed by a land surveyor to mark any limit, boundary or angle of a concession, range, lot or parcel of land, is guilty of an indictable offence and liable to imprisonment for a term not exceeding five years. Saving provision (2) A land surveyor does not commit an offence under subsection (1) where, in his operations as a land surveyor, (a) he takes up, when necessary, a boundary mark mentioned in paragraph (1)(b) and carefully replaces it as it was before he took it up; or (b) he takes up a boundary mark mentioned in paragraph (1)(b) in the course of surveying for a highway or other work that, when completed, will make it impossible or impracticable for that boundary mark to occupy its original position, and he establishes a permanent record of the original position sufficient to permit that position to be ascertained. R.S., c. C-34, s. 399.	10/5/2015 2:08 PM
48	No	10/5/2015 2:06 PM
49	no	10/5/2015 1:43 PM
50	N/a with GPS and other methods available as noted in the email it seems having the stations revitalized rather costly but as part of our history would be a same to see them go.historical	10/5/2015 1:37 PM
51	You did not list the baseline the City of Greater Sudbury has.	10/5/2015 1:24 PM
52	no	10/5/2015 1:10 PM
53	North Bay, Huntsville, Parry Sound	10/5/2015 12:20 PM
54	No. Make sure that instruments get sent in once/year for checkups and make dealer provide calibration report. :)	10/5/2015 12:11 PM
55	One would hope that no one uses EDM any more.	10/5/2015 12:11 PM
56	No I don't think they are necessary.	10/5/2015 12:11 PM
57	I would say they are now redundant. I would not recommend spending AOLS money on this endeavor.	10/5/2015 12:09 PM
58	None	10/5/2015 12:09 PM
59	No	10/5/2015 12:07 PM
60	Using this field for comments. Conestogo is in great condition except for a few guard posts that have been hit hard. Wayne and I (this is David) put this baseline in originally and we would be happy to maintain it. I have no need for another nor do I know the conditions of the others.	10/5/2015 12:05 PM
61	No. Unless one above is gone, then in that area.	10/5/2015 12:04 PM
62	Peterborough.....close to MNRF Surveyor General's Office	10/5/2015 11:59 AM

Calibration Baseline Survey

63	Ottawa Region	10/5/2015 11:58 AM
64	No	10/5/2015 11:56 AM
65	york region	10/5/2015 11:53 AM
66	BETWEEN BARRIE AND SUDBURY / NORTH BAY	10/5/2015 11:53 AM
67	Guelph	10/5/2015 11:53 AM
68	York University for GTA. Survey program there could verify and use them regularly	10/5/2015 11:52 AM
69	Mid way between Sudbury and North Bay (i.e. Sturgeon Falls)	10/5/2015 11:50 AM
70	Ottawa	10/5/2015 11:49 AM
71	No	10/5/2015 11:49 AM
72	sorry, no	10/5/2015 11:49 AM
73	Sudbury would help our for NE Ontario	10/5/2015 11:49 AM
74	York Region	10/5/2015 11:48 AM
75	vaughan	10/5/2015 11:48 AM
76	NO	10/5/2015 11:47 AM