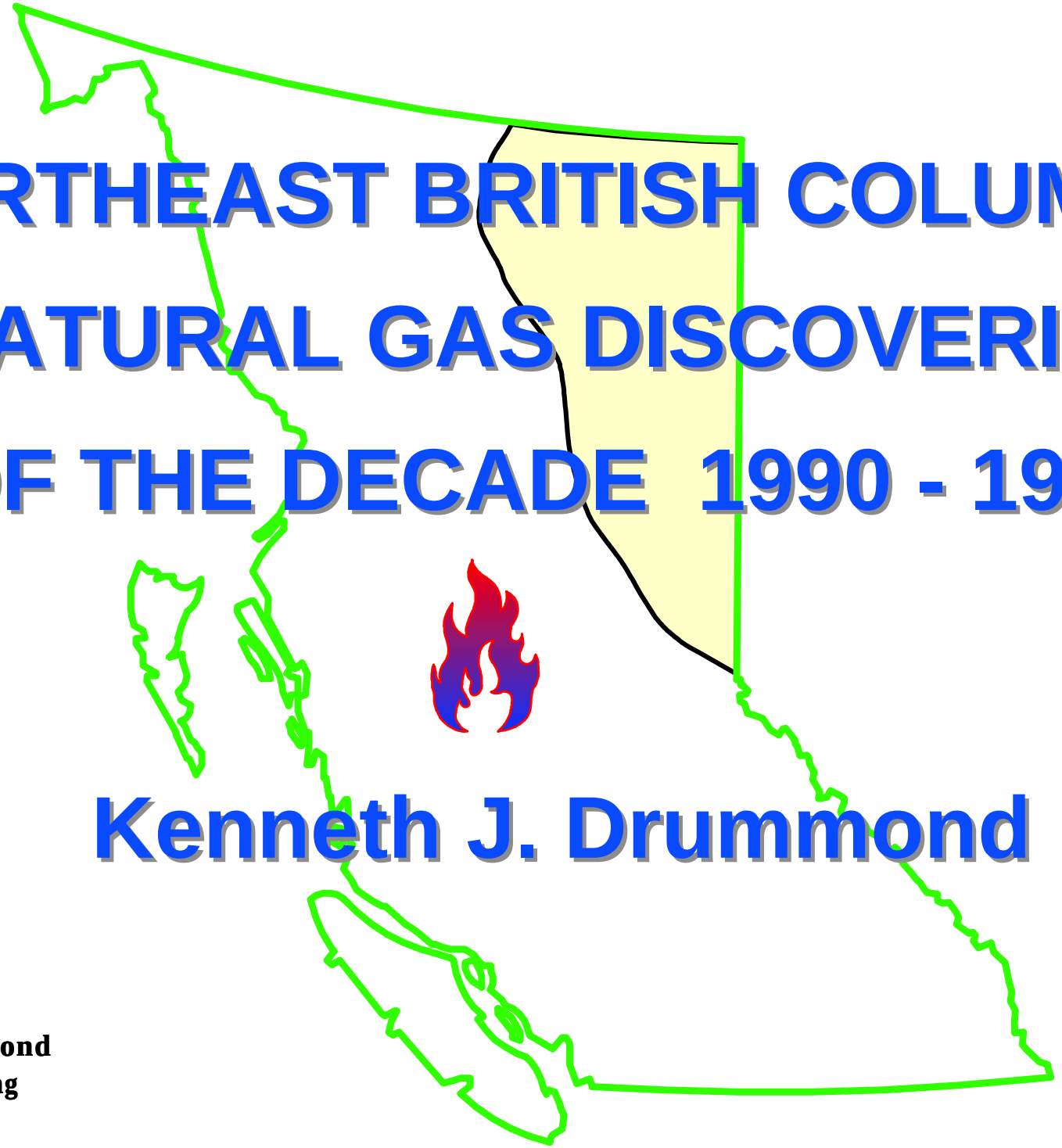
NORTHEAST BRITISH COLUMBIA NATURAL GAS DISCOVERIES OF THE DECADE 1990 - 1999



Kenneth J. Drummond

Drummond Consulting

Northeast British Columbia Gas Discoveries 1990 - 1999

In the 1990's 568 gas pools (non-associated, associated and solution) were discovered with gas-in-place of 8,282 Bcf, and initial marketable gas reserves of 5,234 Bcf. The gas pools discovered in the 1990's represent 38% of the total number of pools discovered and contain 23% of the marketable gas. The first 40 pools by initial marketable gas are listed in table 1. Non-associated gas accounts for 94% of the initial marketable gas in 87% of the pools. A statistical summary of the pools, including reservoir characteristics, is presented in table 2.

The largest gas pool discovery of the 1990's is Helmet North Jean Marie A discovered in 1990 with initial established marketable gas reserves of 338.5 Bcf., followed by Maxhamish Lake Chinkeh A, discovered in 1991, with initial marketable gas of 283.0 Bcf. The top 20 pools ranked by marketable gas contain 2,017 Bcf, which is 38.5% of the total discovered in the decade. For the top 20 pools 976 Bcf (48%) has been produced as of December 31, 1999. The largest number of pools, 89, was discovered in 1994. The largest volumes of gas were discovered in the years 1991 and 1994.

The Northern Plains had the largest number of discoveries, 245 pools with 1,756 Bcf of marketable gas, followed by the Peace River Arch, with 190 pools, and 1,292 Bcf. Excluding the Liard Basin which had only one discovery, Maxhamish Lake Chinkeh A, with 283 Bcf marketable gas, the largest average pool size was 30.7 Bcf in the Grizzly Foothills. The overall average pool size for the 1990's is 9.2 Bcf, marketable gas.

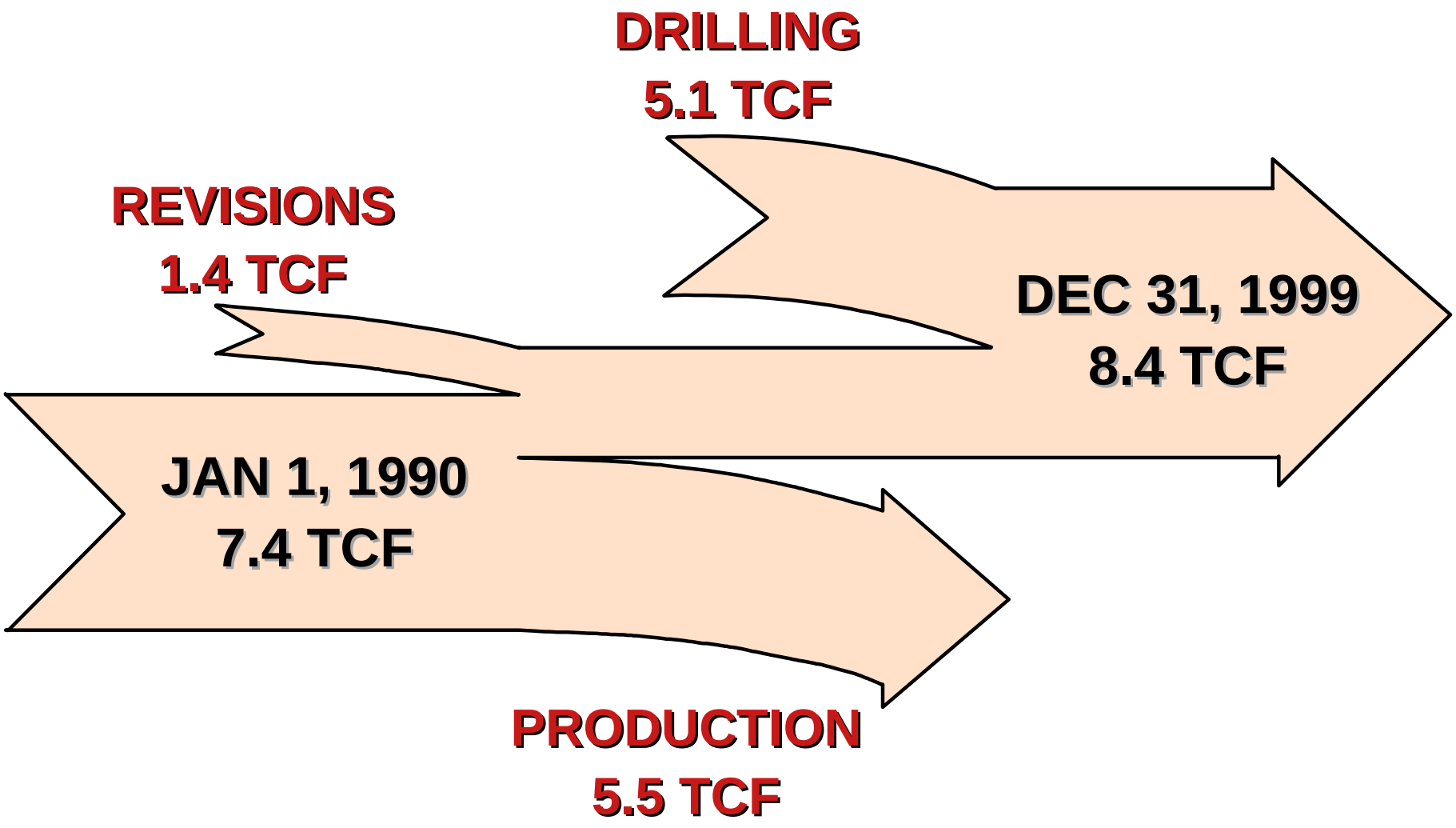
Historical trends for Northeast British Columbia gas pools by decade show the mean, median and 95^{th} percentile values are all decreasing. However the rate of decrease is becoming less in recent decades, and the next decade should be only slightly lower than current values. The median pool size has had a slight increase in the last two decades. For the period, 1990 to 1999, the average pool size is 9.2 Bcf, and the median is 3.2 Bcf. The 95^{th} percentile is 33.7 Bcf., that is 5% of the pools discovered in the 1990's larger than 33.7 Bcf, and the trends suggest the next decade could be very similar.

The pool size distribution, number and marketable gas, is shown in figure 4. There are a total of 18 pools greater than 20 Bcf (3.2% of the total), with 1,924 Bcf (36.8%) of marketable gas. There are 90 pools (16%), with less than 1 Bcf of marketable gas. The most commonly occurring pool size class (mode) is the range 2 to 5 Bcf, with 30% of the pools. The largest volume of gas is in the 20 to 50 Bcf range, with 19% of the initial marketable gas.

References

British Columbia Oil and Gas Commission, 2002, Hydrocarbon and By-Product Reserves in British Columbia, 2001, and Gas Pool Reserves Database

BRITISH COLUMBIA SUMMARY 1990 - 1999
REMAINING MARKETABLE GAS RESERVES



NORTHEAST BRITISH COLUMBIA
GAS POOLS DISCOVERED 1990 - 1999

(BC OIL GAS COMMISION December 31, 2001)

Year of first discovery	1990	
Original Gas-in-Place	8,281.6	BCF
Raw Recoverable Gas	6,393.0	BCF
Initial Marketable Gas	5,803.2	BCF
Raw Gas Recovery Factor (% of GIP)	77.2%	
Marketable Gas Recovery Factor (% of GIP)	70.1%	
Largest Pool (Gas-in-Place)	422.9	BCF
Largest Pool (Recoverable)	354.3	BCF
Largest Pool (Marketable)	568.0	BCF
Smallest Pool (Recoverable)	0.046	BCF
Smallest Pool (Marketable)	0.039	BCF
Number of Pools	568	
Average Pool Size (Gas-in-Place)	14.6	BCF
Average Pool Size (Recoverable)	11.3	BCF
Average Pool Size (Marketable)	10.2	BCF
Total Productive Pool Area	850,603	Acres
Largest Productive Pool Area	90,574	Acres
Smallest Productive Pool Area	3	Acres
Average Productive Pool Area	1,783	Acres
Ave. Rec. Mcf/Ac-Ft	409.8	MCF/Ac-Ft
Maximum Pay	310	Feet
Minimum Pay	1.6	Feet
Average Pay	33.1	Feet
Maximum Porosity	0.265	
Minimum Porosity	0.008	
Average Porosity	0.125	
Maximum Gas Saturation	0.966	
Minimum Gas Saturation	0.300	
Average Gas Saturation	0.758	
Deepest Pool Depth	16,066	Feet
Shallowest Pool Depth	1,339	Feet
Average Depth	5,035	Feet
Average Gas Density	0.669	
Average Pressure	1,858.7	Psi
Average Temperature	143.6	°F
Gas In Place Mcf/Prod. Acre	9,736	MCF/Acre
Rec. Gas Mcf/ Prod. Acre	7,516	MCF/Acre
Average Liquids Recovery	23.4	B/MMCF
Maximum 'Z' Factor	1.219	
Minimum 'Z' Factor	0.439	
Average 'Z' Factor	0.870	

GAS POOLS 1990 - 1999 (TOP 50)		RANKED BY MARKETABLE GAS						
RANK	FIELD POOL NAME	Year of Discov.	GIP (Bcf)	Recov (Bcf)	Mkt. (Bcf)	Cum Mkt (Bcf)	Rem Mkt (Bcf)	Gas Type
1	HELMET NORTH JEAN MARIE A	1990	393.66	354.30	338.46	234.82	103.64	NAS
2	MAXHAMISH LAKE CHINKEH A	1991	422.86	317.14	282.96	63.11	219.85	NAS
3	MURRAY BALDONNEL/U. CHARLIE LAKE A	1994	299.98	269.98	190.96	87.14	103.81	NAS
4	BUICK CREEK BLUESKY C	1992	178.95	152.11	129.79	78.55	51.24	NAS
5	SIKANNI DEBOLT H	1993	119.28	95.42	91.89	82.12	9.77	NAS
6	RING BLUESKY-GETHING-MONTNEY E	1996	112.35	89.88	85.05	2.24	82.81	NAS
7	BRAZION PARDONET-BALDONNEL B	1994	104.98	94.48	79.67	54.29	25.38	NAS
8	SIERRA JEAN MARIE A	1999	104.84	94.36	79.40	5.80	73.60	NAS
9	BURNT RIVER PARDONET-BALDONNEL A	1994	103.02	92.71	79.29	37.44	41.85	NAS
10	BRAZION PARDONET-BALDONNEL A	1991	104.14	93.73	77.00	29.65	47.35	NAS
11	EKWAN JEAN MARIE A	1995	107.63	86.11	75.73	3.96	71.77	NAS
12	BULLMOOSE WEST PARDONET-BALDONNEL D	1992	96.24	86.62	66.78	44.08	22.70	NAS
13	BULLMOOSE WEST PARDONET-BALDONNEL C	1991	95.86	86.27	65.20	56.06	9.15	NAS
14	BOULDER PARDONET-BALDONNEL B	1994	94.74	75.79	62.88	35.86	27.02	NAS
15	SUKUNKA PARDONET-BALDONNEL M	1993	106.15	74.31	59.05	58.65	0.40	NAS
16	BULLMOOSE BALDONNEL C	1991	115.14	103.63	55.32	0.08	55.24	NAS
17	MURRAY BALDONNEL B	1997	87.13	78.41	54.40	18.98	35.41	NAS
18	SUKUNKA PARDONET-BALDONNEL L	1992	99.38	74.54	50.28	45.89	4.39	NAS
19	SIERRA PINE POINT F	1991	76.03	64.62	46.44	32.13	14.31	NAS
20	BLUEBERRY HALFWAY B	1999	64.14	57.72	46.07	4.93	41.15	NAS
21	GRAHAM BALDONNEL D	1993	51.67	46.50	44.34	10.71	33.63	NAS
22	OTHER DEBOLT A-051-H/094-B-10	1997	50.16	45.14	40.92	2.32	38.61	NAS
23	AITKEN CREEK NORTH BLUESKY A	1991	50.07	45.07	38.32	24.19	14.13	NAS
24	GRAHAM BALDONNEL A	1992	79.57	39.78	37.79	22.84	14.95	NAS
25	STODDART WEST DOIG E	1996	94.76	52.65	37.60	18.23	19.38	ASN
26	MONIAS HALFWAY T	1999	48.39	43.55	37.14	1.41	35.73	NAS
27	SEXTET SLAVE POINT D	1996	49.41	44.47	35.99	14.01	21.98	NAS
28	KAHNTAH RIVER MONTNEY A	1994	38.18	34.36	33.92	18.46	15.46	NAS
29	CHINCHAGA RIVER BLUESKY-GETH-DETR A	1994	43.95	35.16	33.83	16.91	16.92	NAS
30	SUKUNKA PARDONET-BALDONNEL P	1994	60.85	54.76	33.54	32.13	1.41	NAS
31	PEGGO-PESH JEAN MARIE B	1997	37.72	33.95	32.36	3.10	29.26	NAS
32	SWAN LAKE MONTNEY A	1997	38.34	34.50	31.64	0.81	30.83	NAS
33	KLUA PINE POINT L	1999	47.06	37.65	30.51	2.02	28.50	NAS
34	OTHER DEBOLT B-085-E/094-G-02	1994	39.26	31.40	30.25	18.50	11.74	NAS
35	SUKUNKA PARDONET-BALDONNEL H	1991	64.96	45.47	29.56	5.51	24.06	NAS
36	PICKELL NOTIKEWIN A	1997	37.47	33.72	29.45	5.50	23.96	NAS
37	CLARKE LAKE PINE POINT C	1993	50.22	35.16	27.89	5.62	22.27	NAS
38	HIGHHAT MOUNTAIN PARD-BALDONNEL C	1996	51.49	41.20	27.69	1.68	26.01	NAS
39	CHINCHAGA RIVER L. CHARLIE LAKE/MONT A	1994	31.70	28.53	27.46	24.15	3.31	NAS
40	INGA HALFWAY E	1990	46.44	37.15	26.11	5.78	20.34	NAS
41	SIKANNI DEBOLT I	1994	44.96	26.97	26.00	8.53	17.47	NAS
42	RIGEL EAST GETHING A	1990	34.63	31.02	25.82	22.36	3.46	ASN
43	BUICK CREEK LOWER HALFWAY C	1990	52.45	34.54	25.71	13.98	11.73	ASN
44	GWILLIM PARDONET-BALDONNEL B	1991	44.05	39.65	24.77	0.00	24.77	NAS
45	GRAHAM BALDONNEL C	1995	28.14	25.32	23.99	0.01	23.98	NAS
46	BUBBLES NORTH HALFWAY C	1999	31.67	28.50	22.40	2.32	20.08	NAS
47	MONIAS HALFWAY U	1999	28.15	25.34	21.40	0.36	21.04	NAS
48	SIERRA PINE POINT G	1993	36.31	29.05	21.39	16.09	5.30	NAS
49	CHINCHAGA RIVER SLAVE POINT A	1996	33.73	21.92	21.22	3.17	18.05	NAS
50	BULLMOOSE PARDONET-BALDONNEL A	1996	42.24	33.79	20.88	3.31	17.57	NAS

NORTHEAST BRITISH COLUMBIA
GAS POOLS DISCOVERED 1990 - 1999
DESCRIPTIVE STATISTICS (as of December 31, 2001)

	AREA	*PAY*	*POR*	*SW*	*SG*	*PRESS*	*TEMP*
Mean	1,783	33.08	0.125	0.242	0.758	1,858.7	143.6
Median	694	14.40	0.124	0.220	0.780	1,494.0	134.3
Standard Deviation	6,978	48.98	0.052	0.124	0.124	1,032.0	35.0
Sample Variance	48,697,138	2,398.84	0.003	0.015	0.015	1,065,126	1,225.9
Kurtosis	93.93	10.77	-0.612	-0.40	-0.40	3.63	2.71
Skewness	9.24	3.07	0.094	0.53	-0.53	1.73	1.63
Range	90,571	308.40	0.257	0.666	0.666	7,366.6	217.8
Minimum	3	1.60	0.008	0.034	0.300	316.5	55.1
Maximum	90,574	310.00	0.265	0.700	0.966	7,683.1	272.9
Sum	850,603						
Count	477	549	552	553	553	568	568
95th Percentile	3,200	132.9	0.211	0.463	0.920	4,094.0	234.5
75th Percentile	734	34.2	0.163	0.337	0.857	2,315.8	151.0
25th Percentile	652	7.9	0.085	0.143	0.663	1,157.2	125.3
5th Percentile	224	3.7	0.042	0.080	0.537	848.9	107.3

	H2S	*CO2*	*OTHGAS*	*LIQSREC*	*CALCSL*	*C3LOSS*	*DENSITY*
Mean	0.019	0.027	0.06	23.40	0.09	0.03	0.669
Median	0.000	0.012	0.02	22.60	0.07	0.03	0.663
Standard Deviation	0.044	0.040	0.08	20.70	0.07	0.03	0.097
Sample Variance	0.002	0.002	0.01	428.44	0.01	0.00	0.009
Kurtosis	11.81	10.37	6.59	6.37	5.84	6.43	10.81
Skewness	3.22	2.97	2.48	1.72	2.23	1.72	-1.05
Range	0.303	0.290	0.48	164.92	0.47	0.23	1.094
Minimum	0.000	0.000	0.00	0.00	0.01	0.00	0.001
Maximum	0.303	0.290	0.48	164.92	0.48	0.23	1.095
Count	568	568	568	568	568	568	522
95th Percentile	0.120	0.119	0.24	60.21	0.25	0.08	0.832
75th Percentile	0.015	0.024	0.06	33.70	0.10	0.05	0.692
25th Percentile	0.000	0.007	0.01	5.98	0.05	0.01	0.628
5th Percentile	0.000	0.001	0.01	0.00	0.02	0.00	0.562

	Z	*GIP_BCF*	*RRG_BCF*	*IMG_BCF*	*GRF_REC*	*GRF_MG*	*MFD*
Mean	0.870	14.580	11.255	10.181	0.774	0.646	5,034.5
Median	0.870	5.119	3.804	3.221	0.800	0.691	4,171.0
Standard Deviation	0.059	33.500	27.903	33.416	0.184	0.171	1,990.8
Sample Variance	0.004	1,122.217	778.550	1,116.656	0.034	0.029	3,963,361
Kurtosis	11.599	77.454	79.399	161.479	5.31	2.89	2.85
Skewness	-1.130	7.635	7.842	11.365	-2.29	-1.66	1.52
Range	0.780	422.763	354.252	567.961	0.898	0.885	14,726.7
Minimum	0.439	0.097	0.046	0.039	0.008	0.007	1,339.3
Maximum	1.219	422.859	354.298	568.000	0.906	0.892	16,066.0
Sum		8,281.59	6,393.02	5,803.16			
Count	539	568	568	570	568	568	568
95th Percentile	0.946	51.05	40.70	33.88	0.900	0.824	8,953.1
75th Percentile	0.893	12.72	9.50	8.01	0.900	0.762	6,140.2
25th Percentile	0.852	2.57	1.84	1.54	0.800	0.610	3,691.1
5th Percentile	0.786	0.75	0.41	0.36	0.348	0.285	3,237.9

NORTHEAST BRITISH COLUMBIA
GAS POOLS DISCOVERED 1990 - 1999

SUMMARY OF H2S CONTENT

CODE	% H2S	POOLS	RAW GAS BCF	% POOLS	% RAW GAS
0	0	312	2,639.4	54.9%	31.9%
1	.01 - .09%	37	1,219.2	6.5%	14.7%
2	.1 - 1.99%	94	1,122.6	16.5%	13.6%
3	2.0 - 9.99%	86	1,756.9	15.1%	21.2%
4	10.0 - 19.99%	33	1,235.0	5.8%	14.9%
5	20.0 - 29.99%	5	261.8	0.9%	3.2%
6	30.0% or More	1	46.7	0.2%	0.6%
	TOTAL	568	8,281.6	100.0%	100.0%
	H2S > 10%	39	1,543.5	6.9%	18.6%

SUMMARY OF CO2 CONTENT

CODE	% CO2	POOLS	RAW GAS BCF	% POOLS	% RAW GAS
0	0	6	33.1	1.1%	0.4%
1	.01 - .09%	0	0.0	0.0%	0.0%
2	.1 - 1.99%	348	4,009.5	66.5%	50.6%
3	2.0 - 9.99%	132	2,256.0	25.2%	28.5%
4	10.0 - 19.99%	37	1,618.4	7.1%	20.4%
	TOTAL	523	7,917.0	100.0%	100.0%
	CO2 > 2%	169	3,874.3	32.3%	48.9%

NORTHEAST BRITISH COLUMBIA GAS POOLS DISCOVERED 1990 - 1999

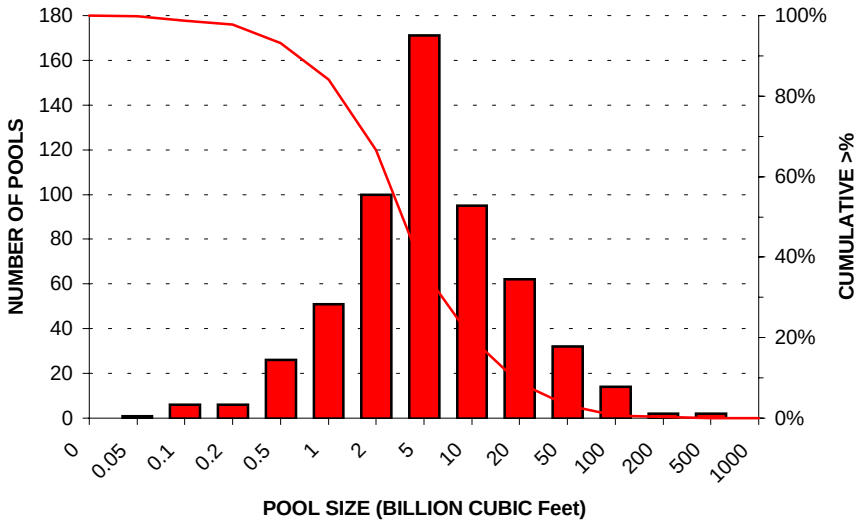
POOL SIZE DISTRIBUTION

INITIAL MARKETABLE GAS (Billion Cubic Feet)

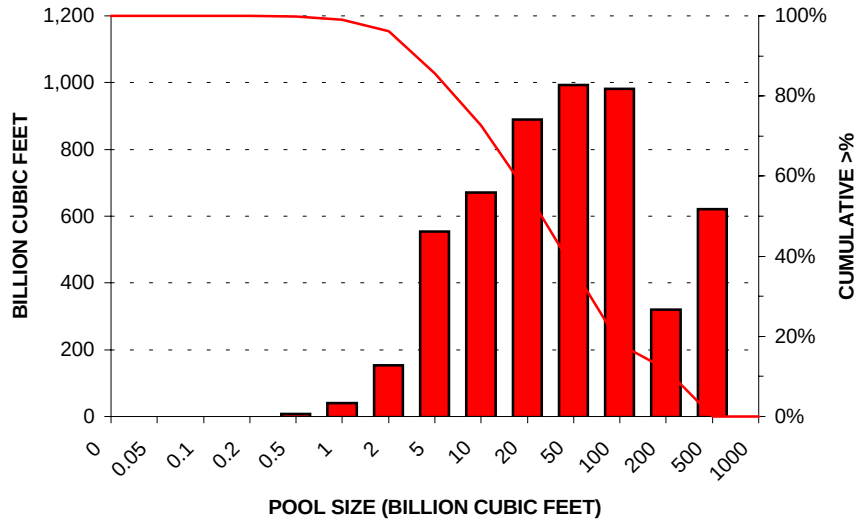
Size Bcf	No. of Pools	IMG Bcf	% of Pools	Cum % Pools	% of IMG	Cum % IMG
0	0	0.0	0.0%	100.0%	0.0%	100.0%
0.05	1	0.0	0.2%	99.8%	0.0%	100.0%
0.1	6	0.5	1.1%	98.8%	0.0%	100.0%
0.2	6	0.9	1.1%	97.7%	0.0%	100.0%
0.5	26	8.6	4.6%	93.1%	0.2%	99.8%
1	51	40.2	9.0%	84.2%	0.8%	99.0%
2	100	152.4	17.6%	66.5%	2.9%	96.1%
5	171	553.6	30.1%	36.4%	10.6%	85.6%
10	95	671.3	16.7%	19.7%	12.8%	72.7%
20	62	890.2	10.9%	8.8%	17.0%	55.7%
50	32	992.4	5.6%	3.2%	19.0%	36.8%
100	14	981.9	2.5%	0.7%	18.8%	18.0%
200	2	320.7	0.4%	0.4%	6.1%	11.9%
500	2	621.4	0.4%	0.0%	11.9%	0.0%
1000	0	0.0	0.0%	0.0%	0.0%	0.0%
2000	0	0.0	0.0%	0.0%	0.0%	0.0%
Total	568	5,234.2				

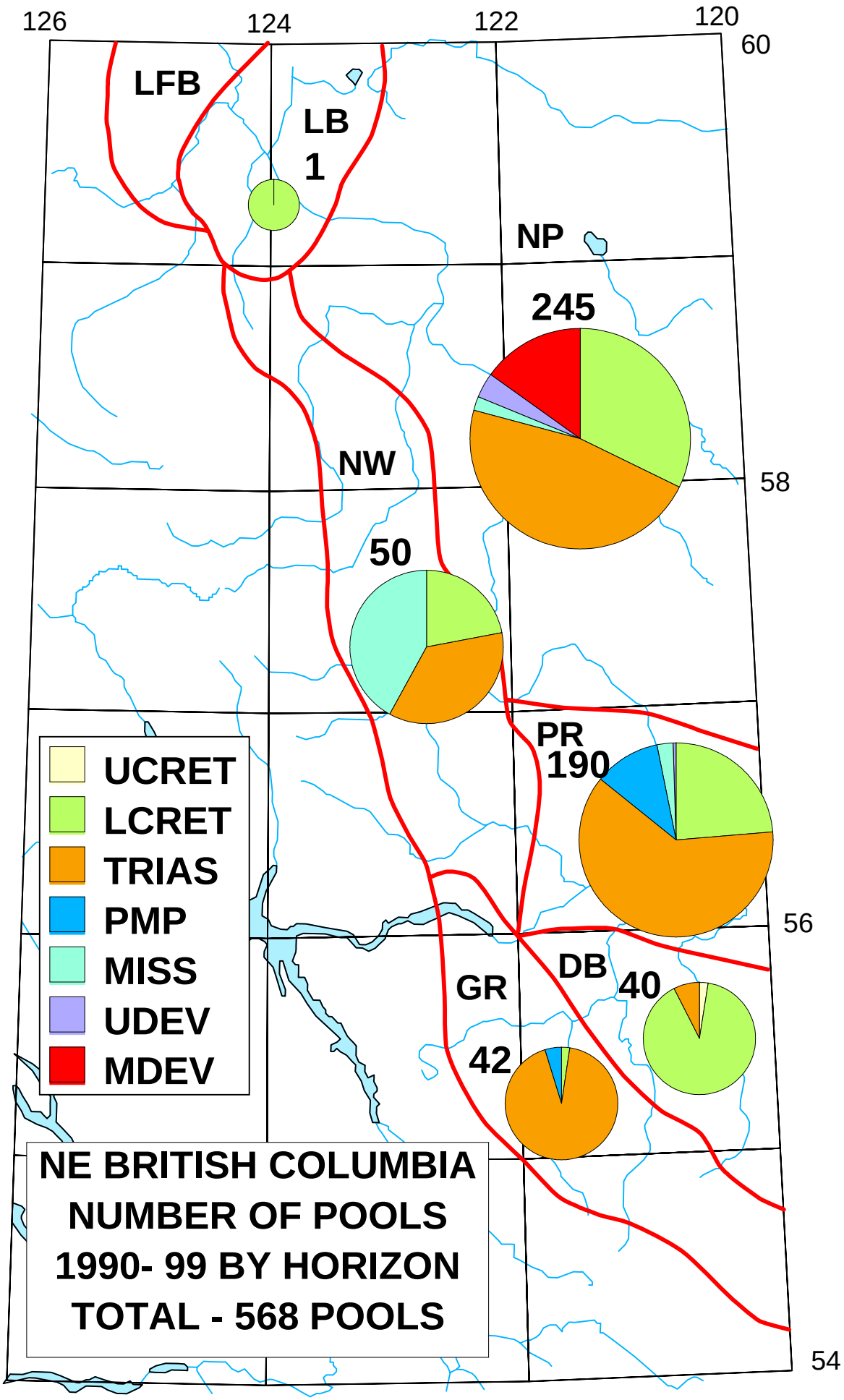
Total Number of Pools	568
Initial Marketable Gas	5,234
Largest Pool	568
Mean Pool Size	10.2
Median Pool Size	3.2
95th Percentile	33.9
75th Percentile	8.0
25th Percentile	1.5

POOL SIZE DISTRIBUTION - NUMBER



POOL SIZE DISTRIBUTION MARKETABLE GAS

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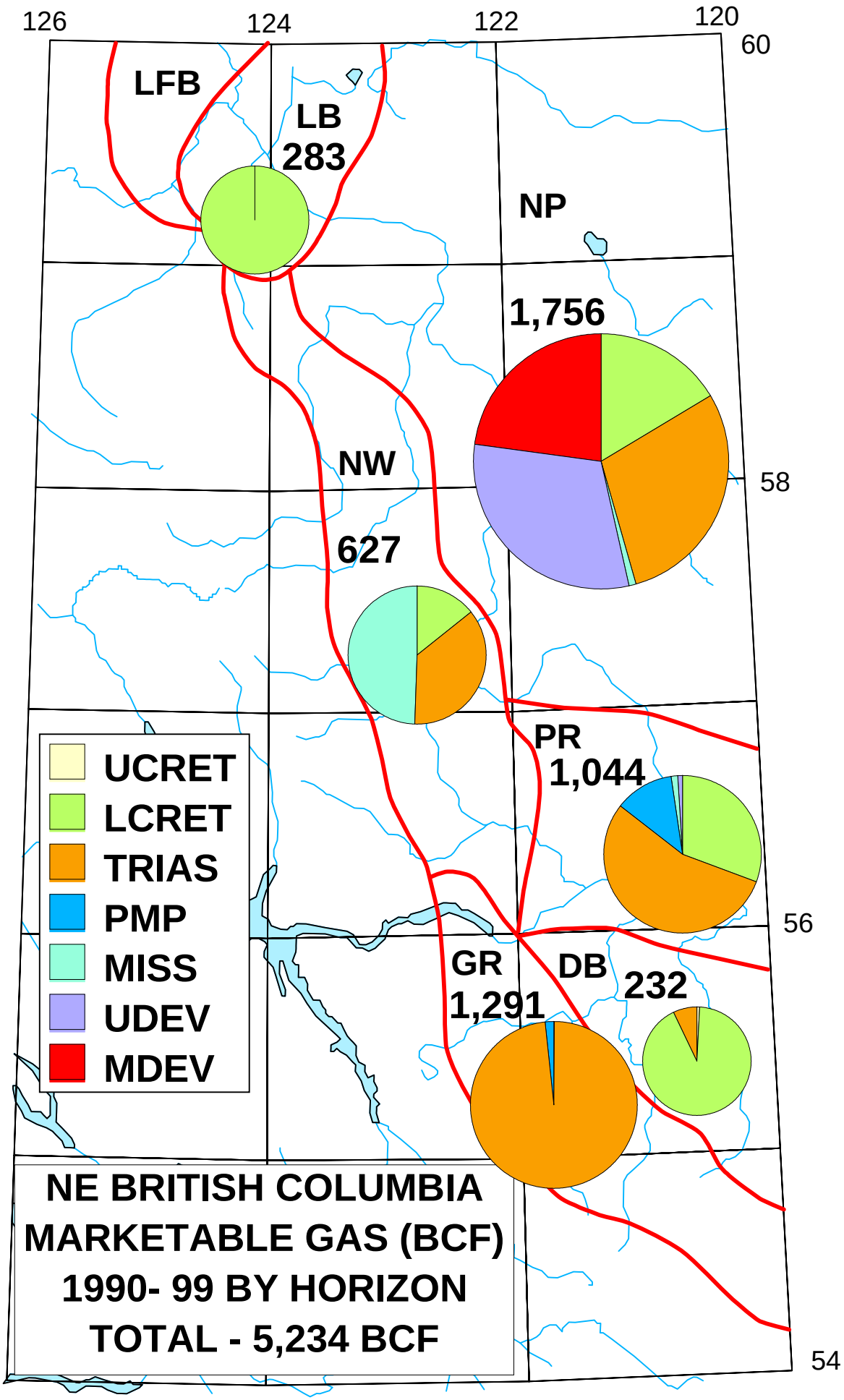
NE BRITISH COLUMBIA
NUMBER OF POOLS
1990- 99 BY HORIZON
TOTAL - 568 POOLS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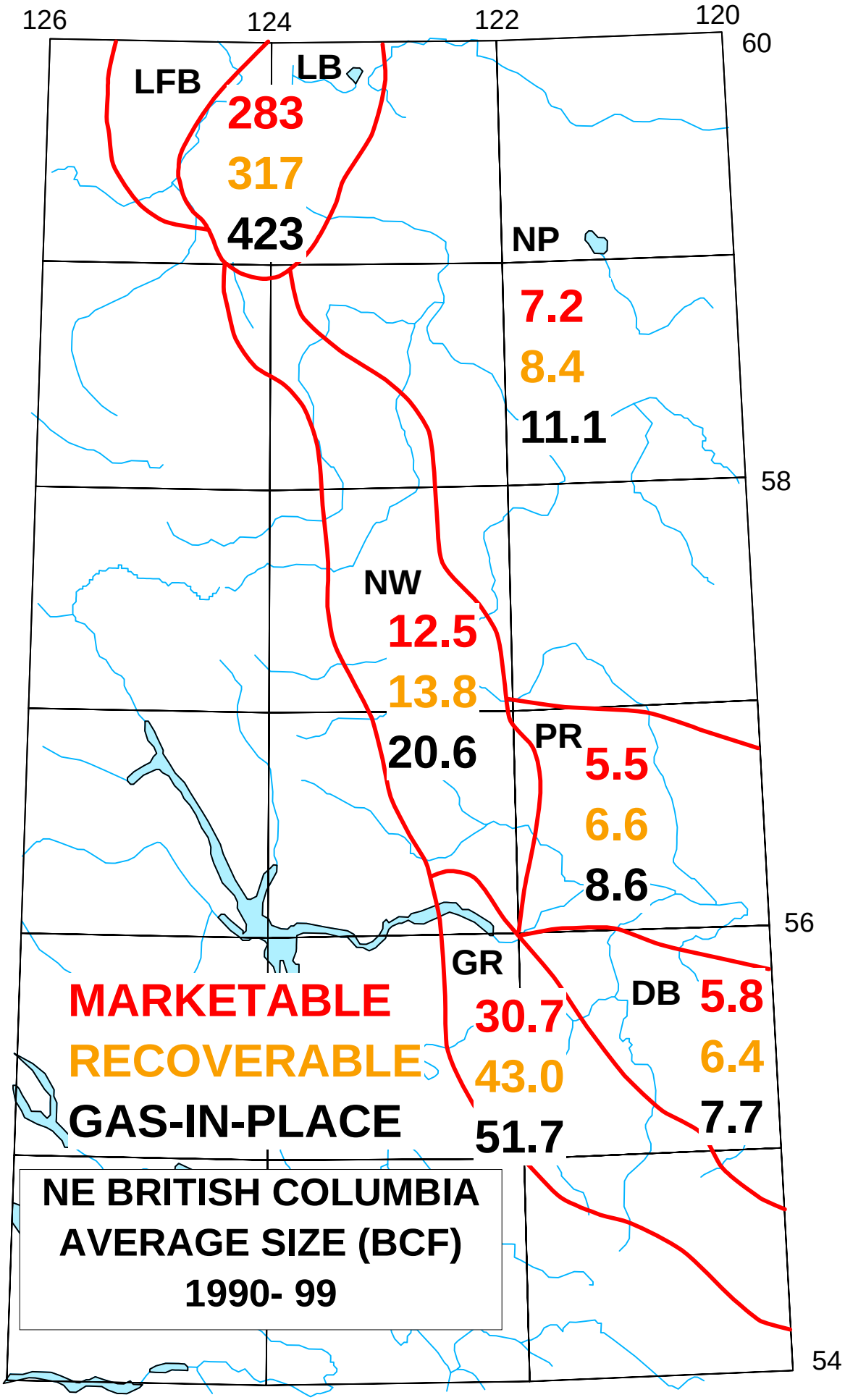
NE BRITISH COLUMBIA
MARKETABLE GAS (BCF)
1990- 99 BY HORIZON
TOTAL - 5,234 BCF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MARKETABLE
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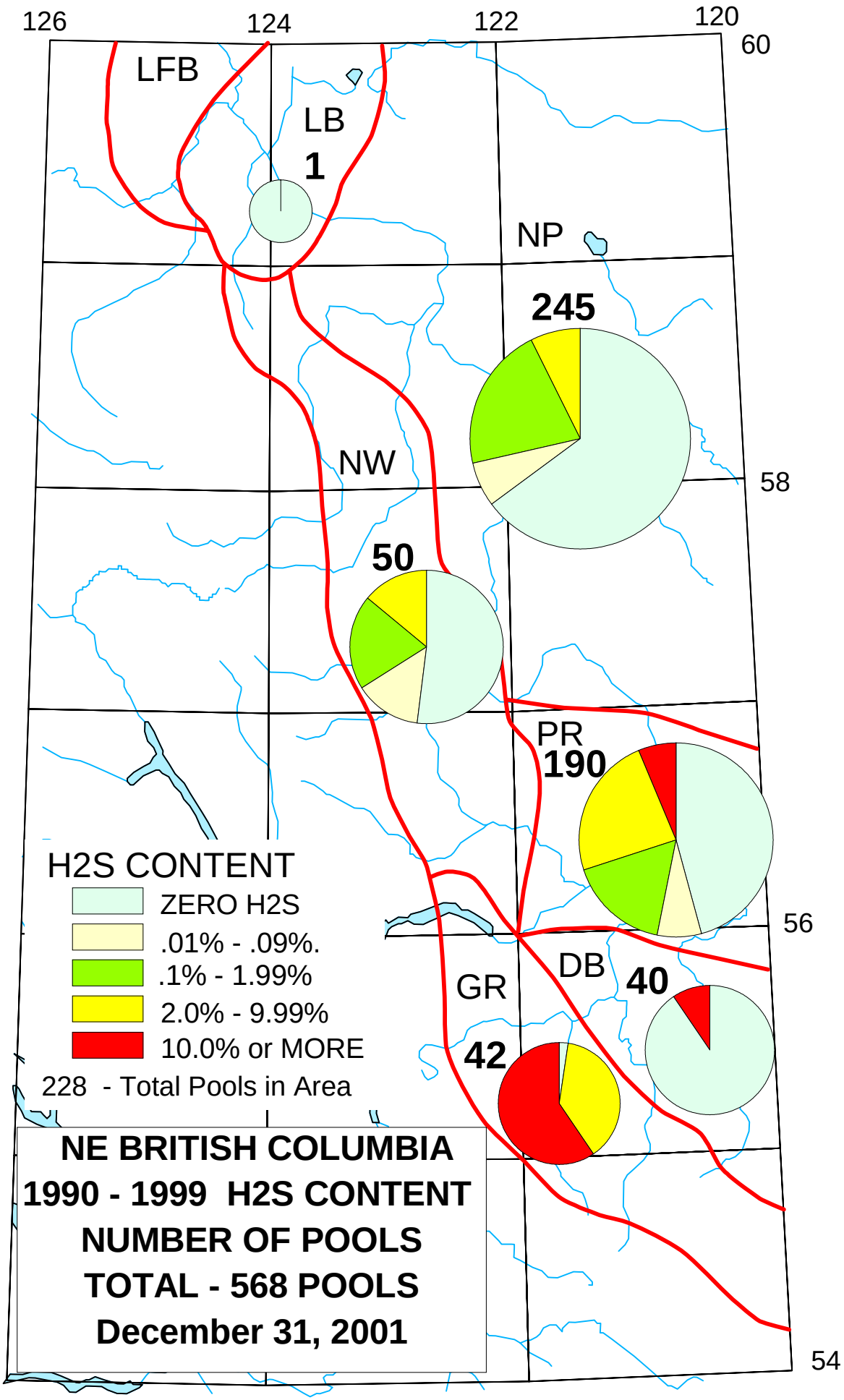
NE BRITISH COLUMBIA
AVERAGE SIZE (BCF)
1990- 99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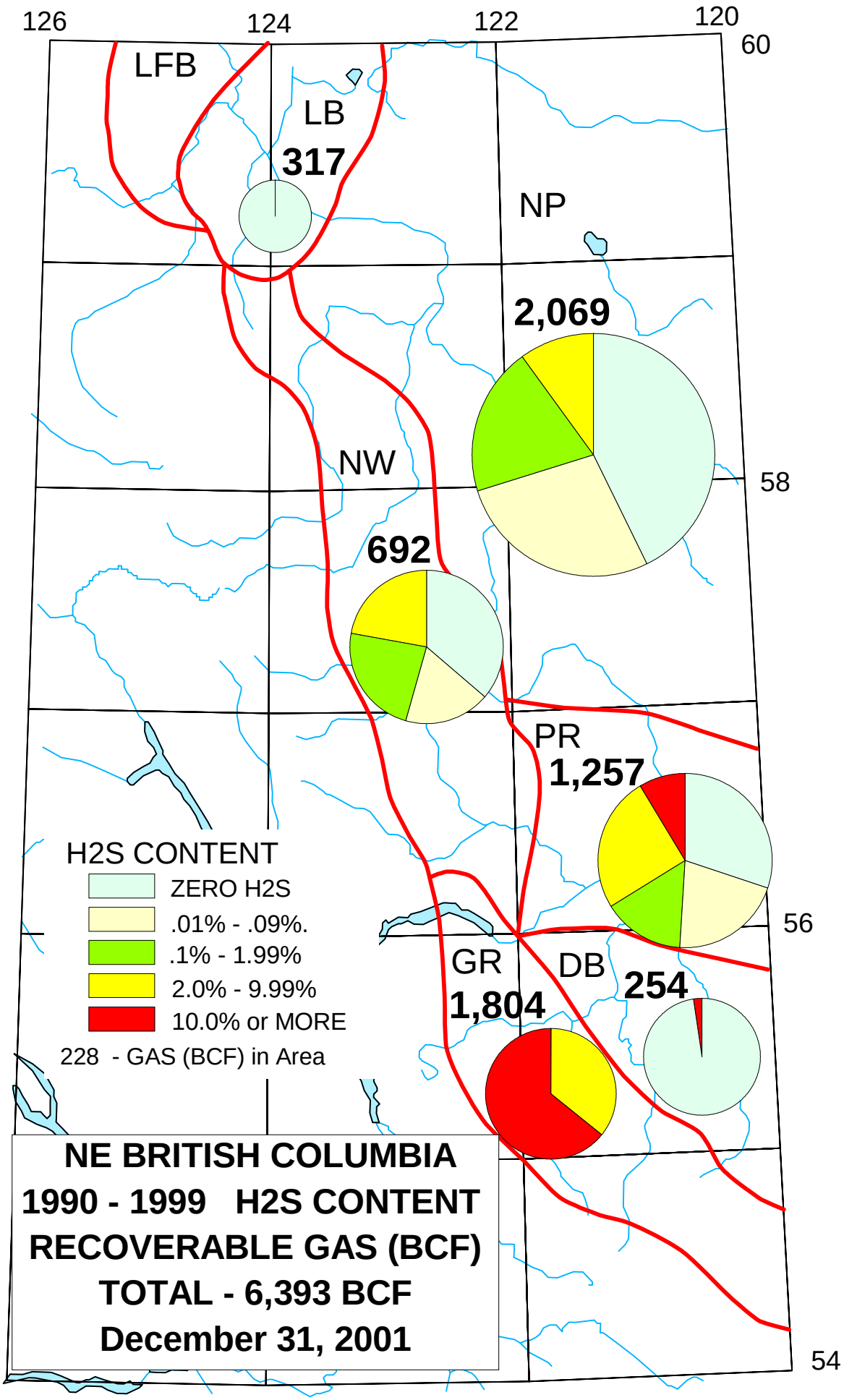
H2S CONTENT
ZERO H2S
.01% - .09%.
.1% - 1.99%
2.0% - 9.99%
10.0% or MORE
228 - Total Pools in Area
NE BRITISH COLUMBIA
1990 - 1999 H2S CONTENT
NUMBER OF POOLS
TOTAL - 568 POOLS
December 31, 2001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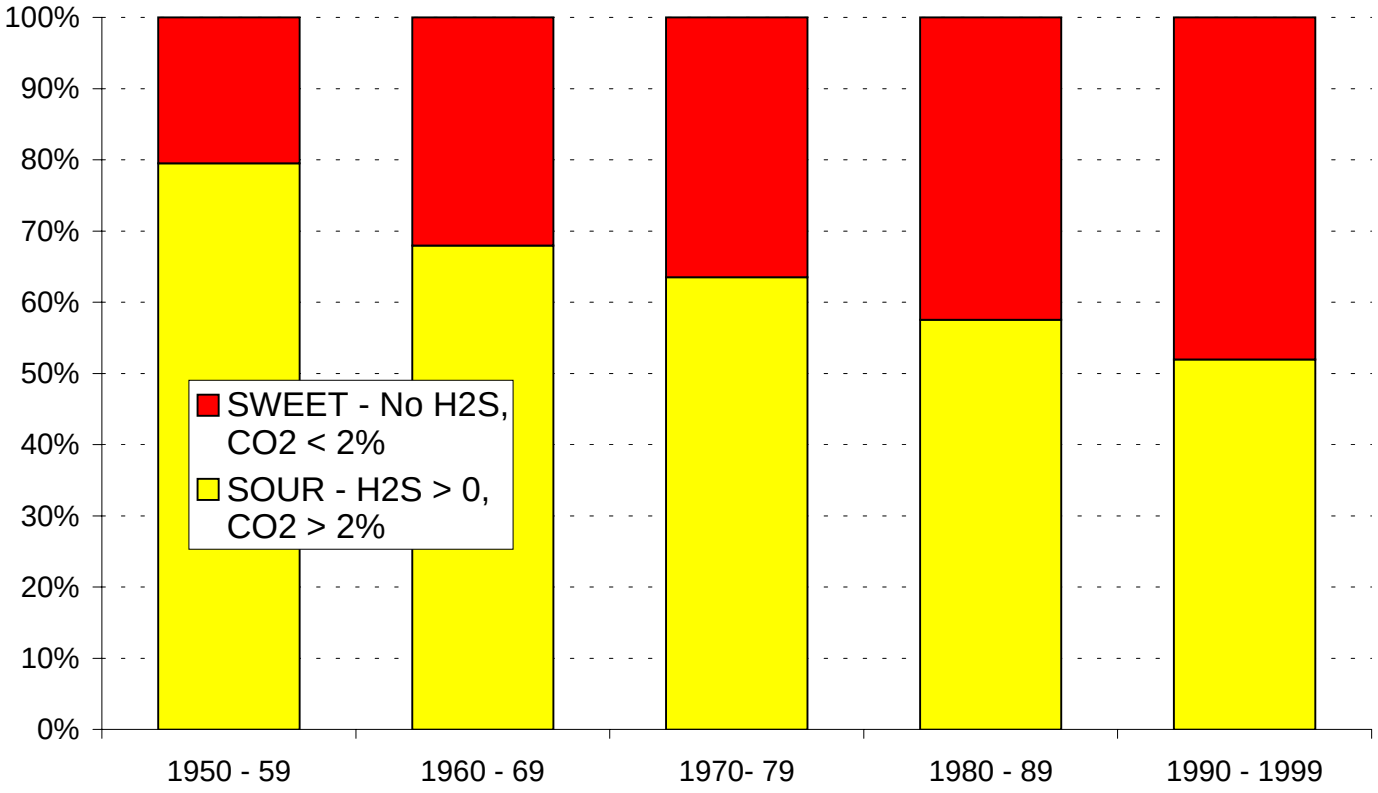
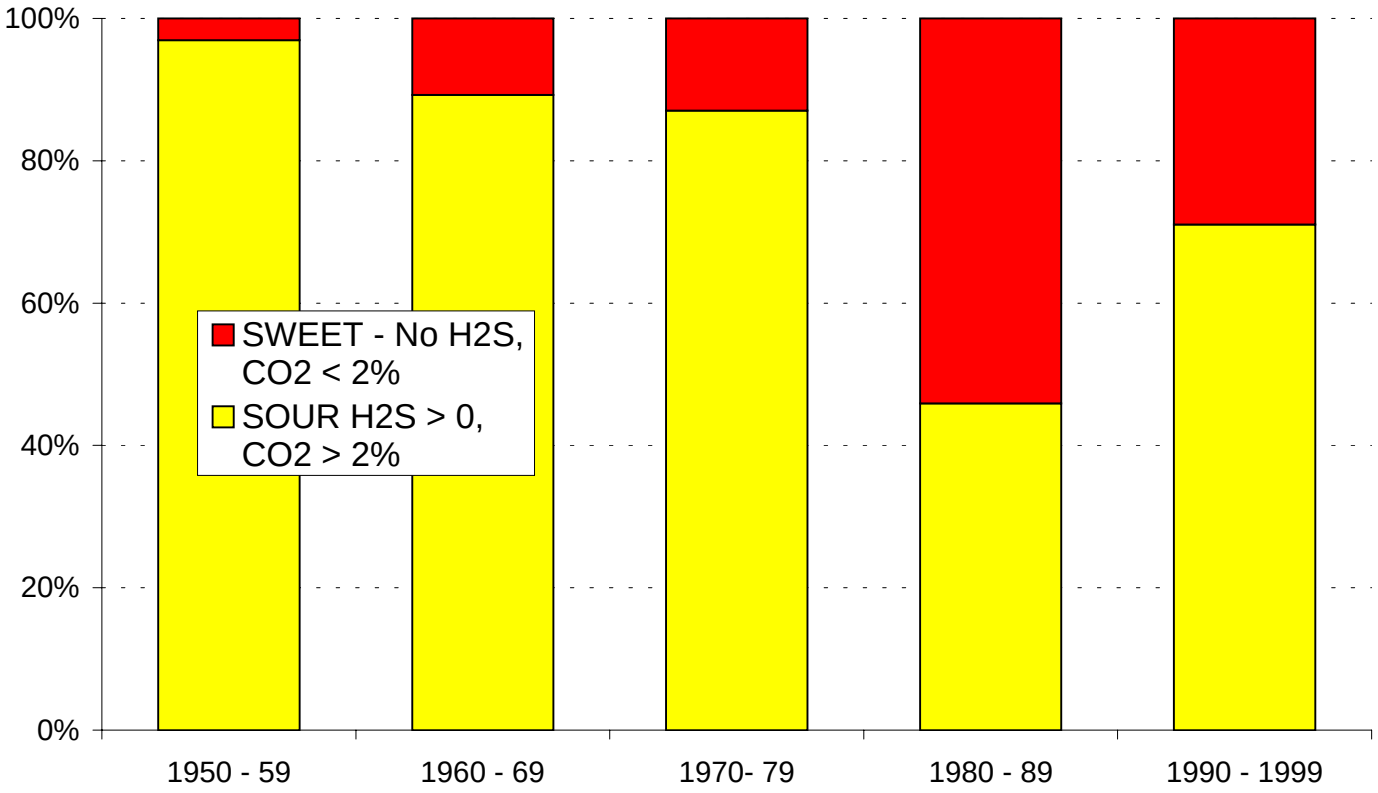
H2S CONTENT
ZERO H2S
.01% - .09%.
.1% - 1.99%
2.0% - 9.99%
10.0% or MORE
228 - GAS (BCF) in Area
NE BRITISH COLUMBIA
1990 - 1999 H2S CONTENT
RECOVERABLE GAS (BCF)
TOTAL - 6,393 BCF
December 31, 2001

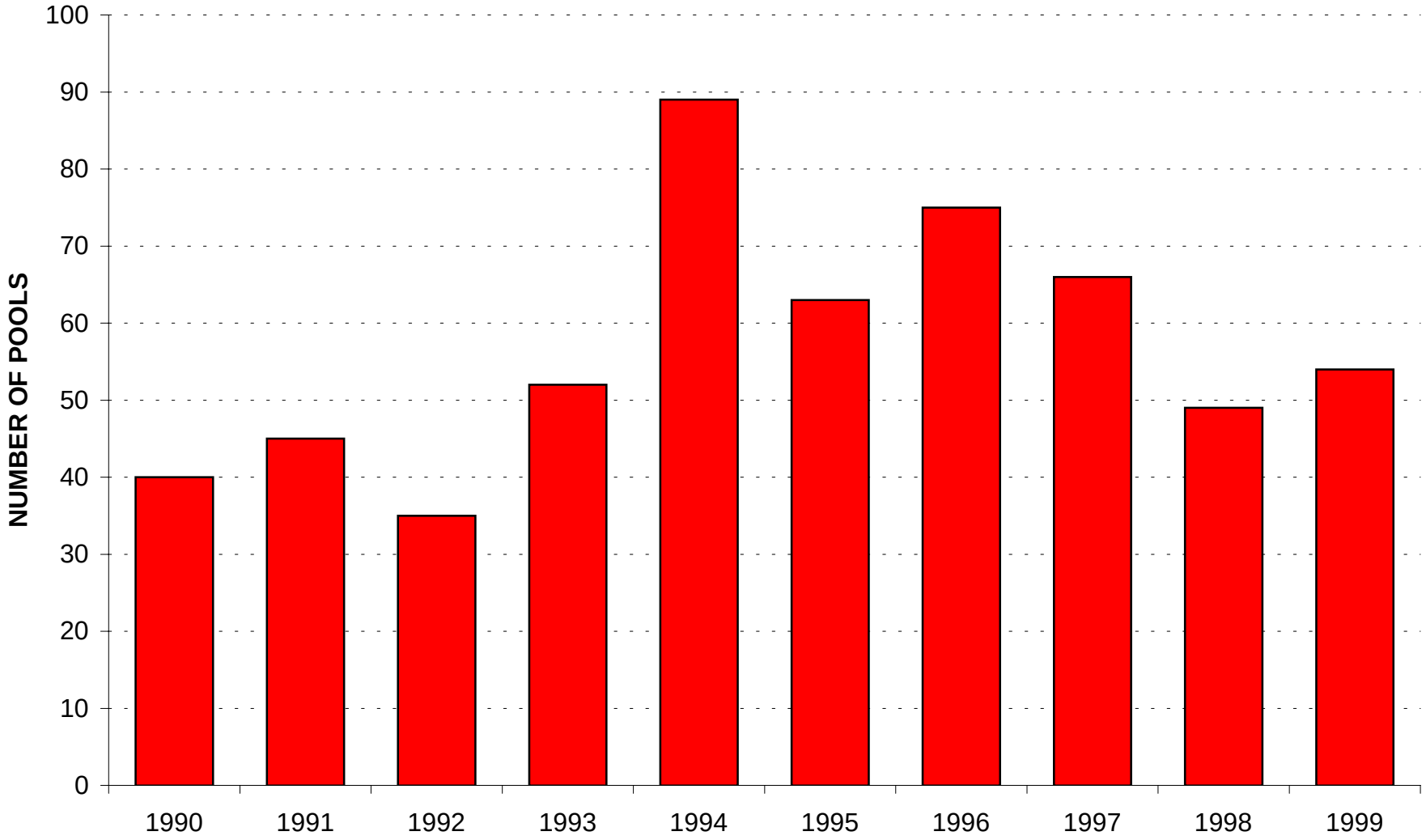
BRITISH COLUMBIA GAS POOLS BY DECADE
SWEET vs SOUR - NUMBER OF POOLS



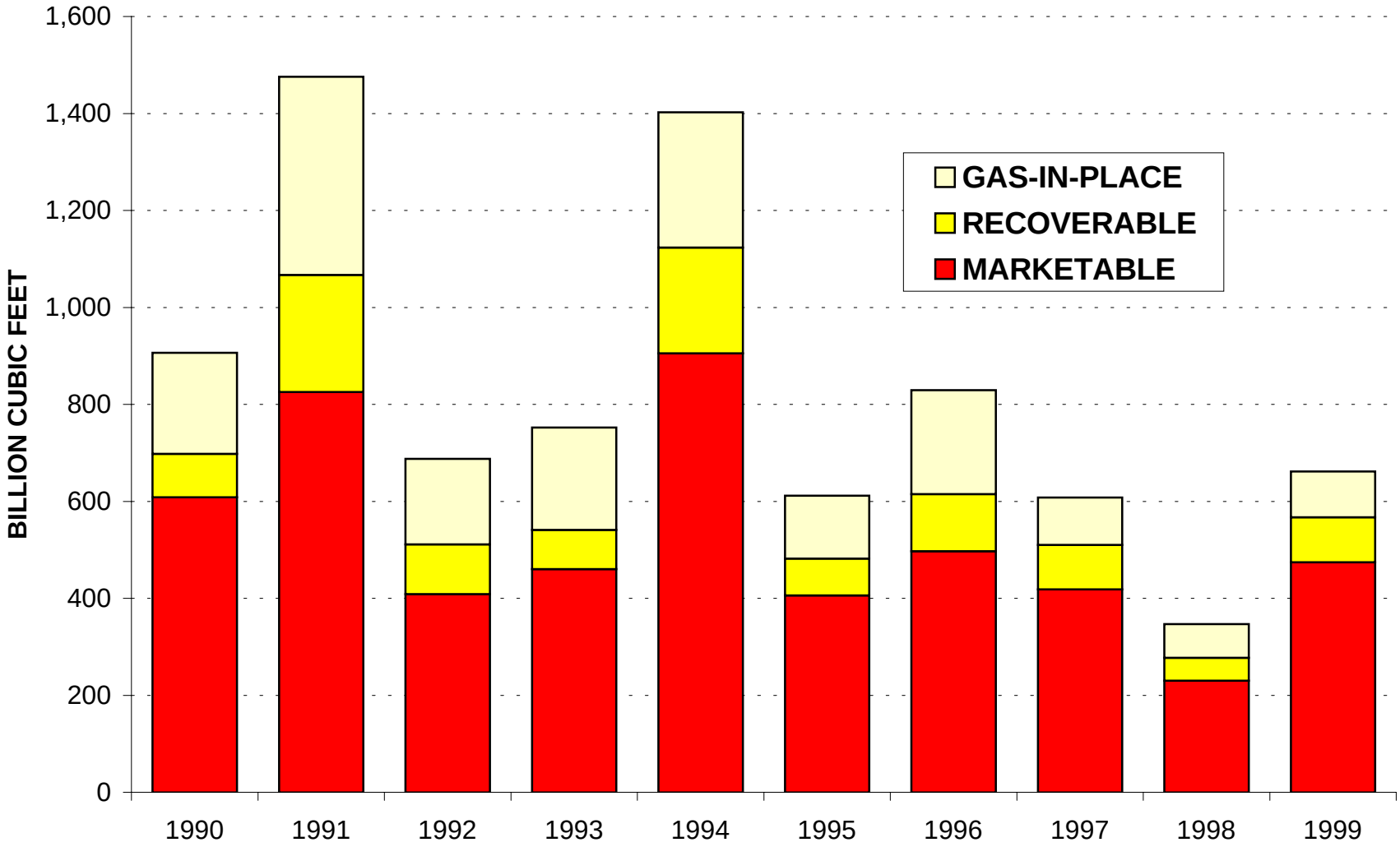
BRITISH COLUMBIA GAS POOLS BY DECADE
SWEET vs SOUR - RECOVERABLE GAS

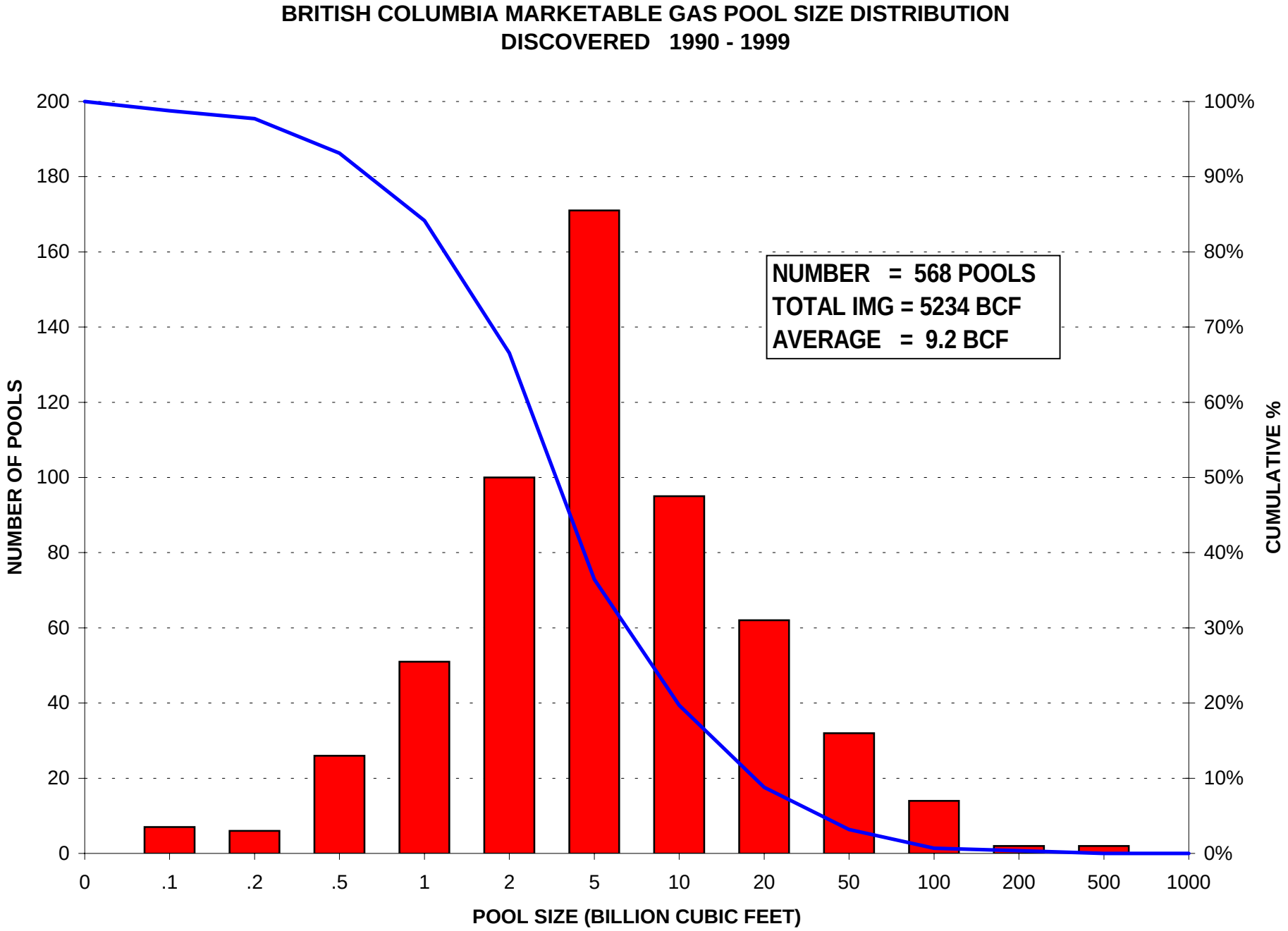


NUMBER OF GAS POOLS BY YEAR OF DISCOVERY

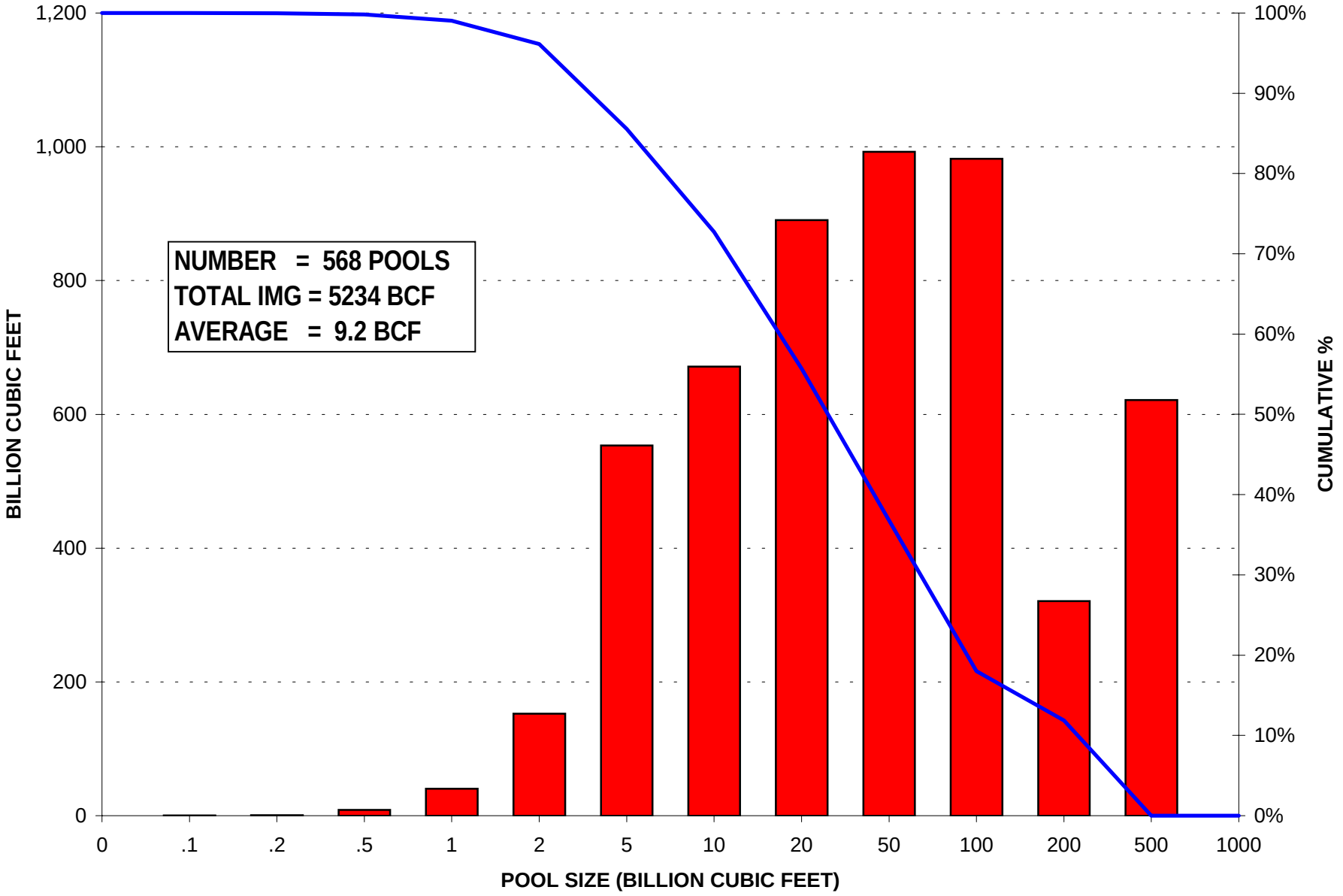


GAS VOLUMES BY YEAR OF DISCOVERY

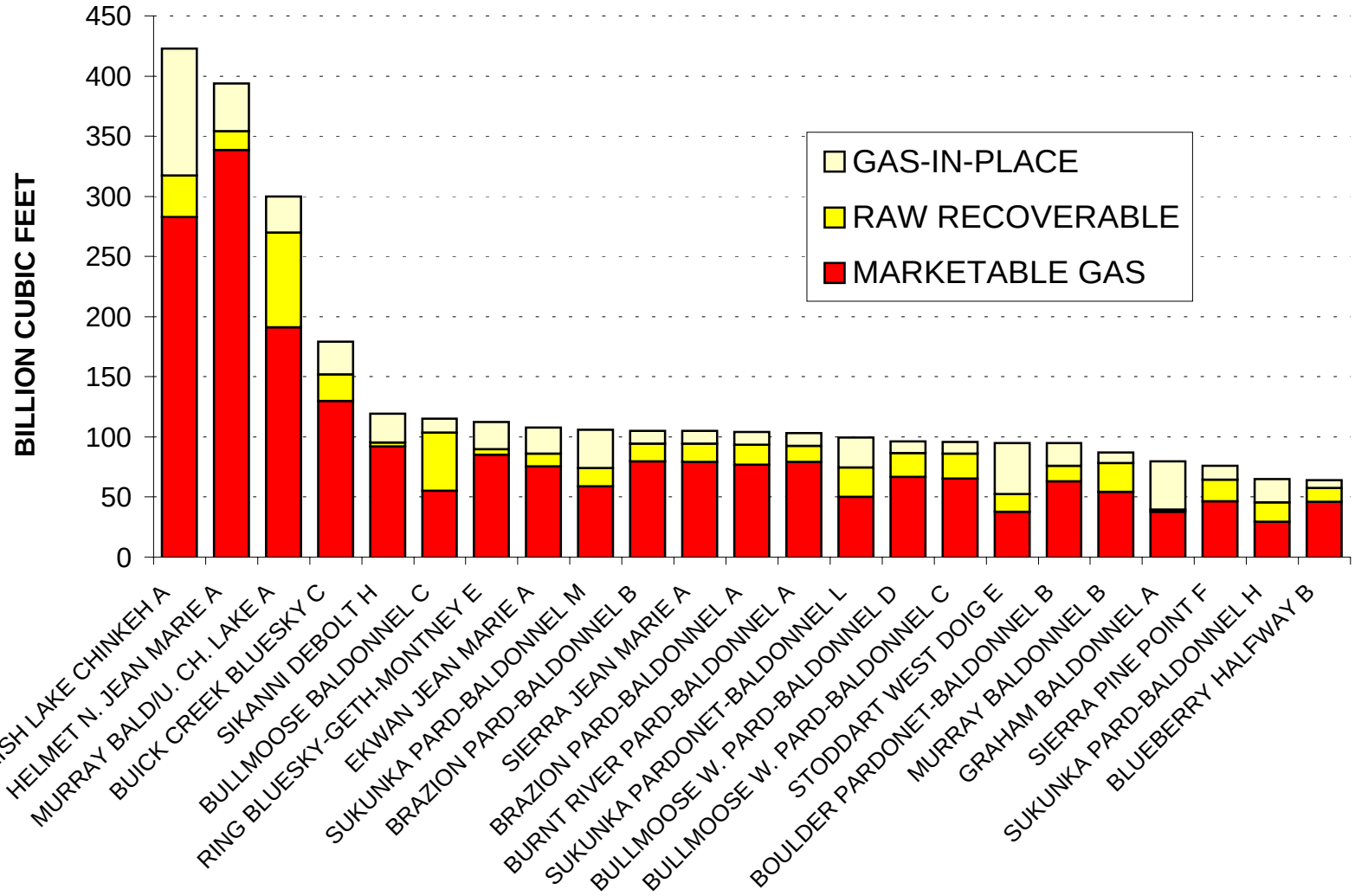



BRITISH COLUMBIA MARKETABLE GAS POOL SIZE DISTRIBUTION
DISCOVERED 1990 - 1999
NUMBER = 568 POOLS
TOTAL IMG = 5234 BCF
AVERAGE = 9.2 BCF
NUMBER OF POOLS
CUMULATIVE %
POOL SIZE (BILLION CUBIC FEET)
0
20
40
60
80
100
120
140
160
180
200
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
0
.1
.2
.5
1
2
5
10
20
50
100
200
500
1000

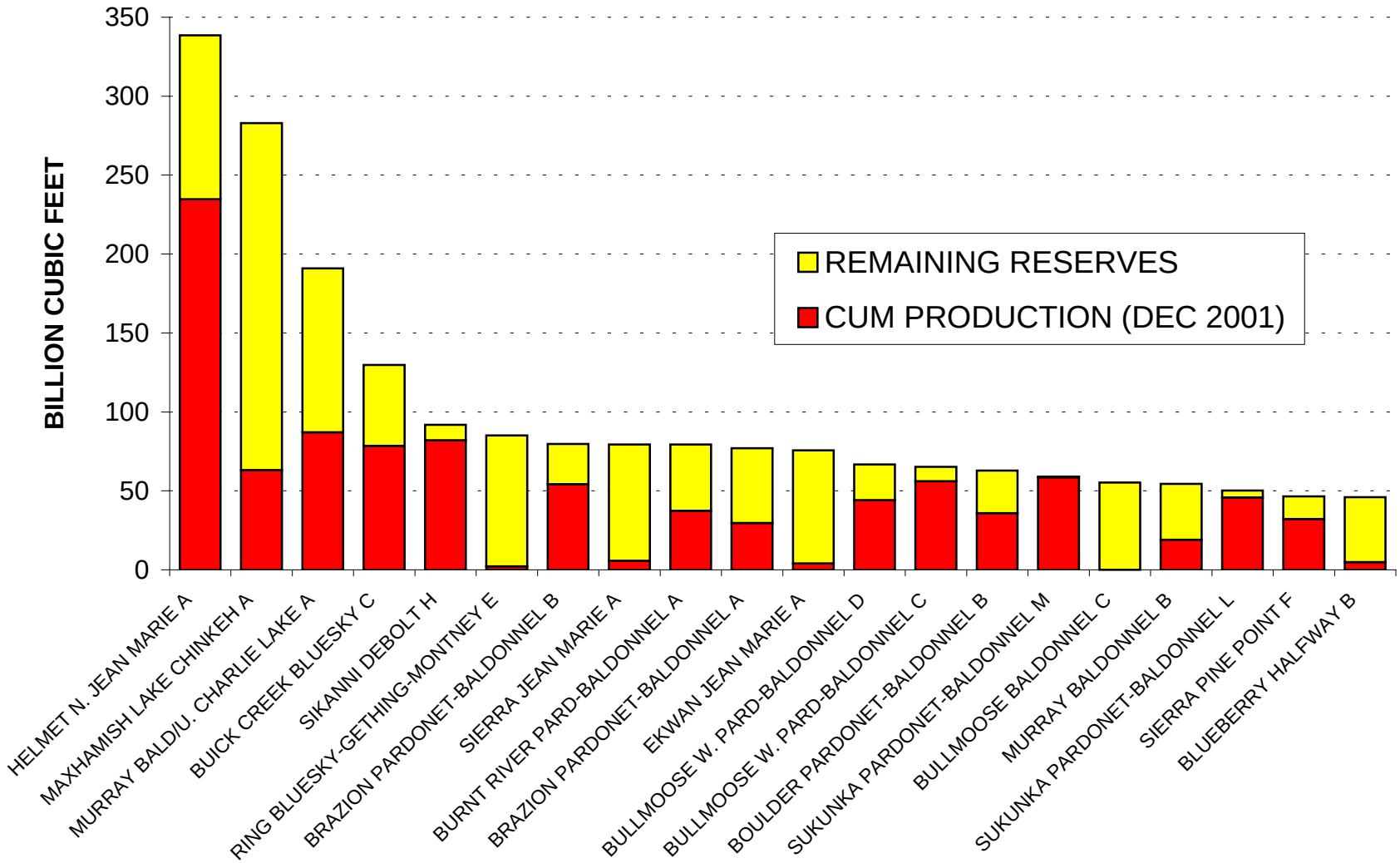
BRITISH COLUMBIA MARKETABLE GAS POOL SIZE DISTRIBUTION
DISCOVERED 1990 - 1999



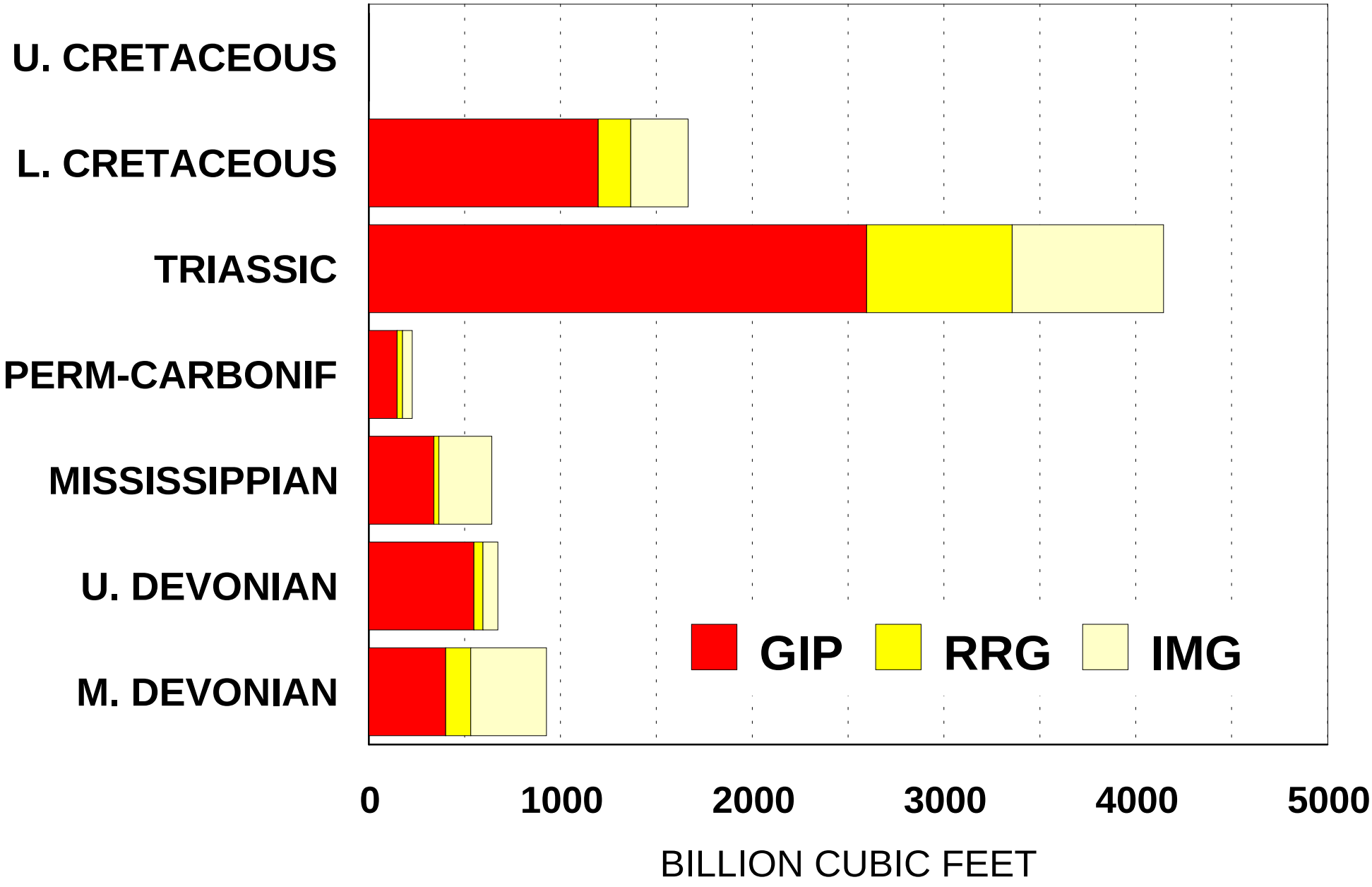
TOP 20 GAS POOLS BY GAS-IN-PLACE



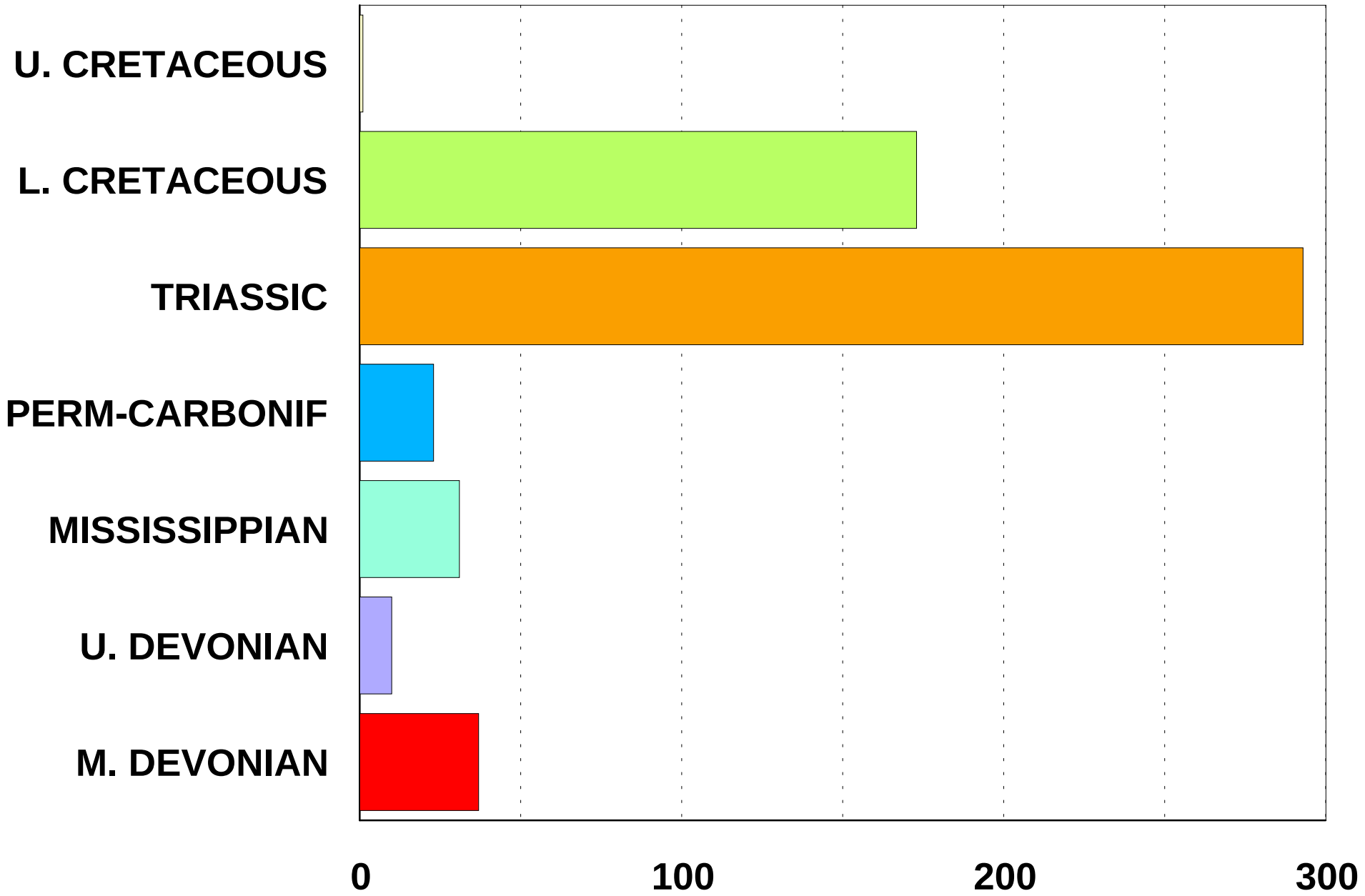
TOP 20 GAS POOLS BY MARKETABLE GAS



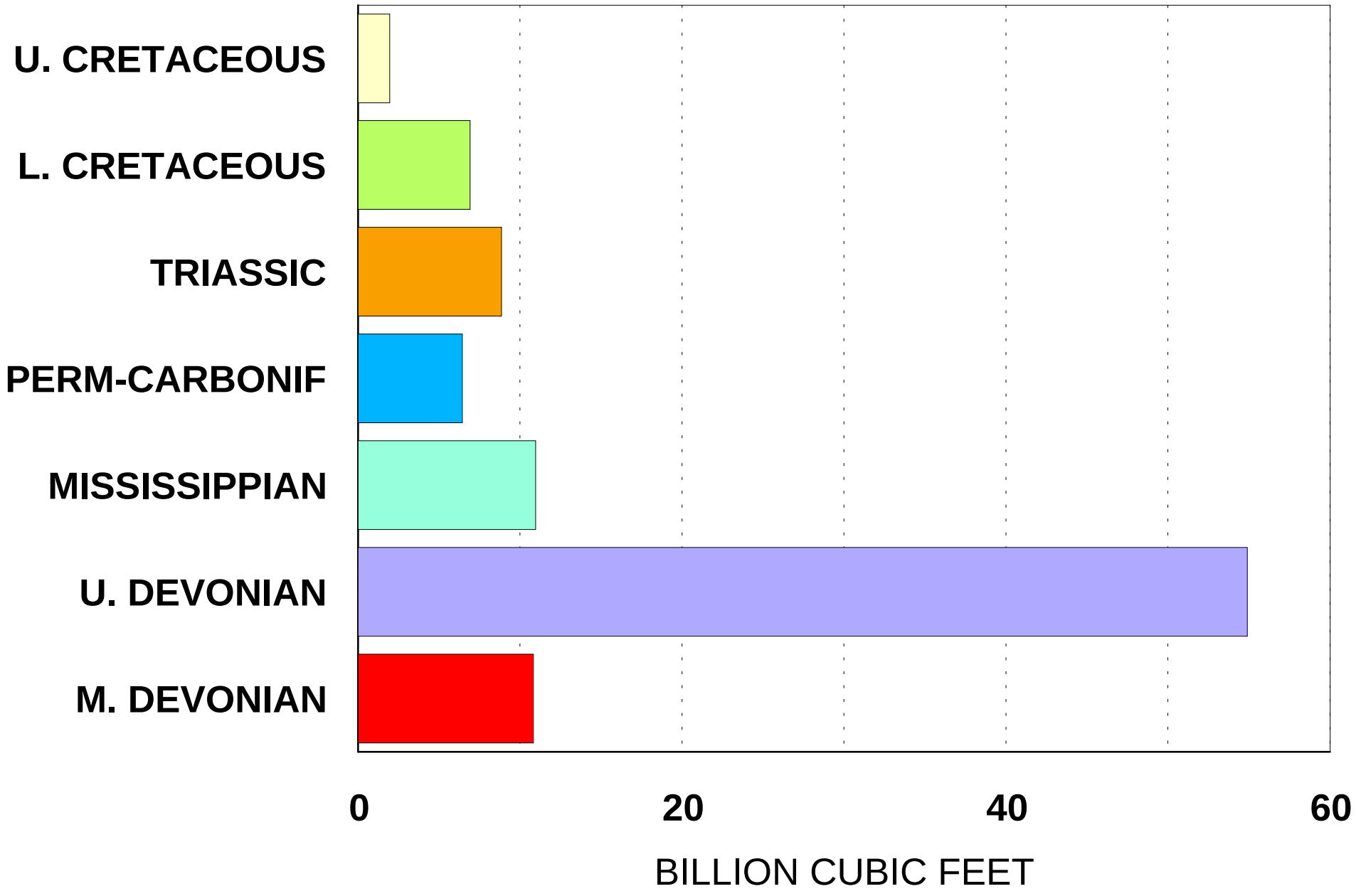
N.E. BRITISH COLUMBIA 1990 - 1999
GAS BY STRATIGRAPHIC HORIZON



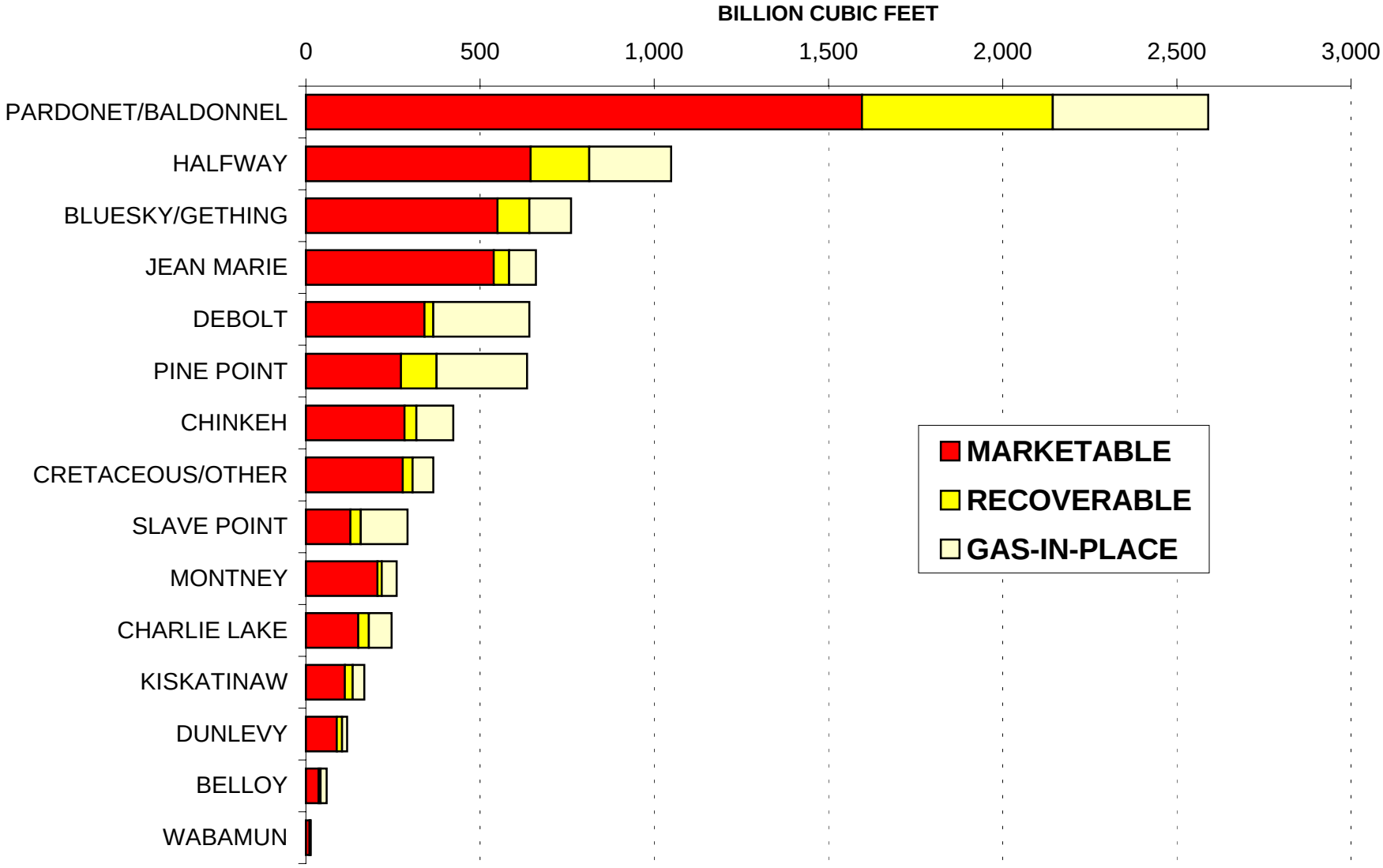
N.E. BRITISH COLUMBIA 1990 - 1999
NUMBER BY STRATIGRAPHIC HORIZON



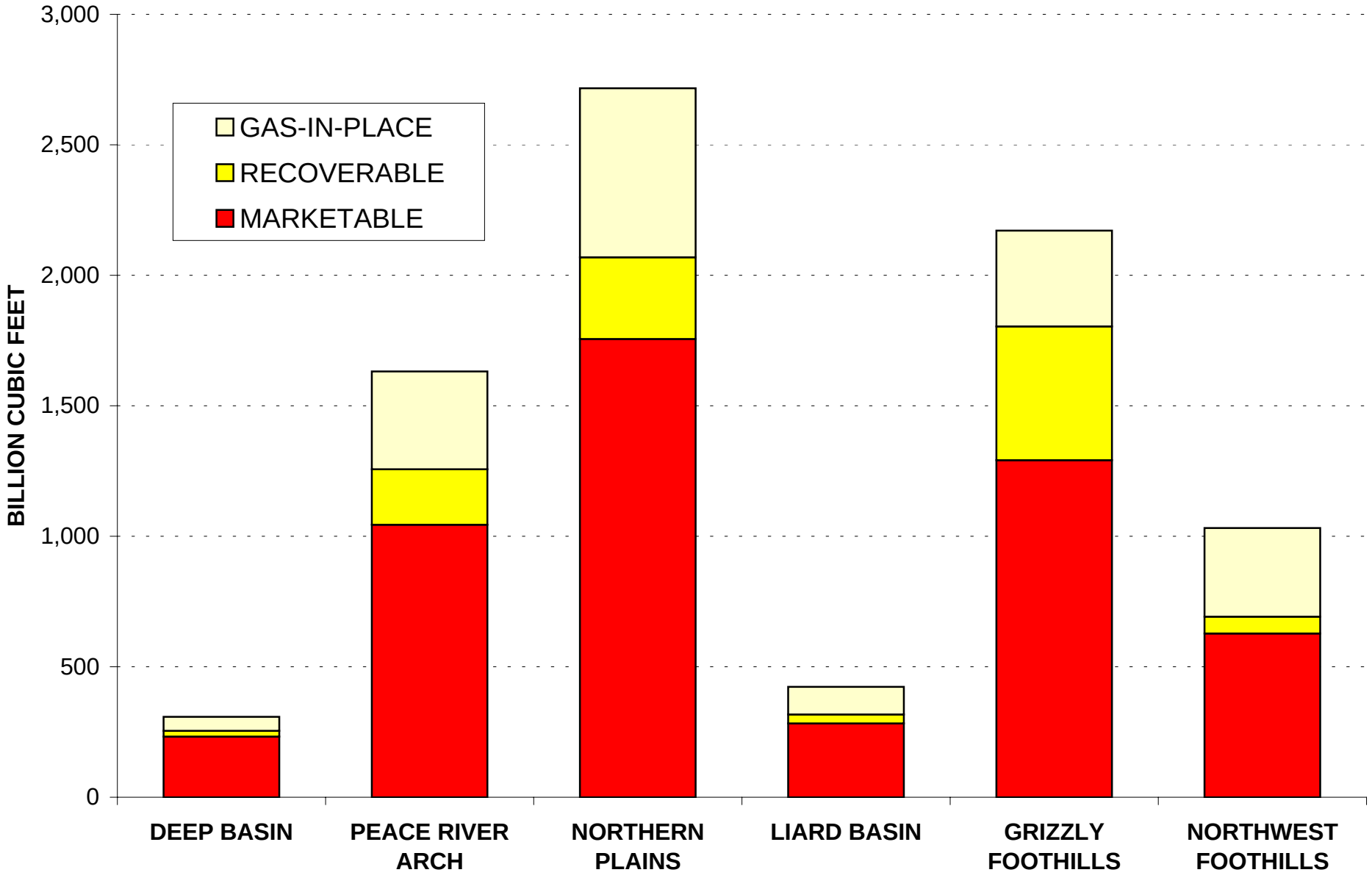
N.E. BRITISH COLUMBIA 1990 - 1999
AVERAGE SIZE (MARKETABLE) BY HORIZON



NORTHEAST BRITISH COLUMBIA DISCOVERED GAS BY STRATIGRAPHIC FORMATION 1990 - 1999



NE BRITISH COLUMBIA GAS DISCOVERIES 1990 - 1999 BY AREA



DISTRIBUTION OF NATURAL GAS (BCF) BY STRUCTURAL AREA
NE BRITISH COLUMBIA - DISCOVERED 1990 -1999

AREA	NUMBER	GAS-IN-PLACE	RECOVERABLE	MARKETABLE
DEEP BASIN	40	308.1	254.4	232.4
PEACE RIVER ARCH	190	1,631.5	1,256.8	1,044.3
NORTHERN PLAINS	245	2,716.6	2,068.8	1,755.7
LIARD BASIN	1	422.9	317.1	283.0
GRIZZLY FOOTHILLS	42	2,171.1	1,804.1	1,291.5
NORTHWEST FOOTHILLS	50	1,031.5	691.8	627.4
TOTAL	568	8,281.6	6,393.0	5,234.2

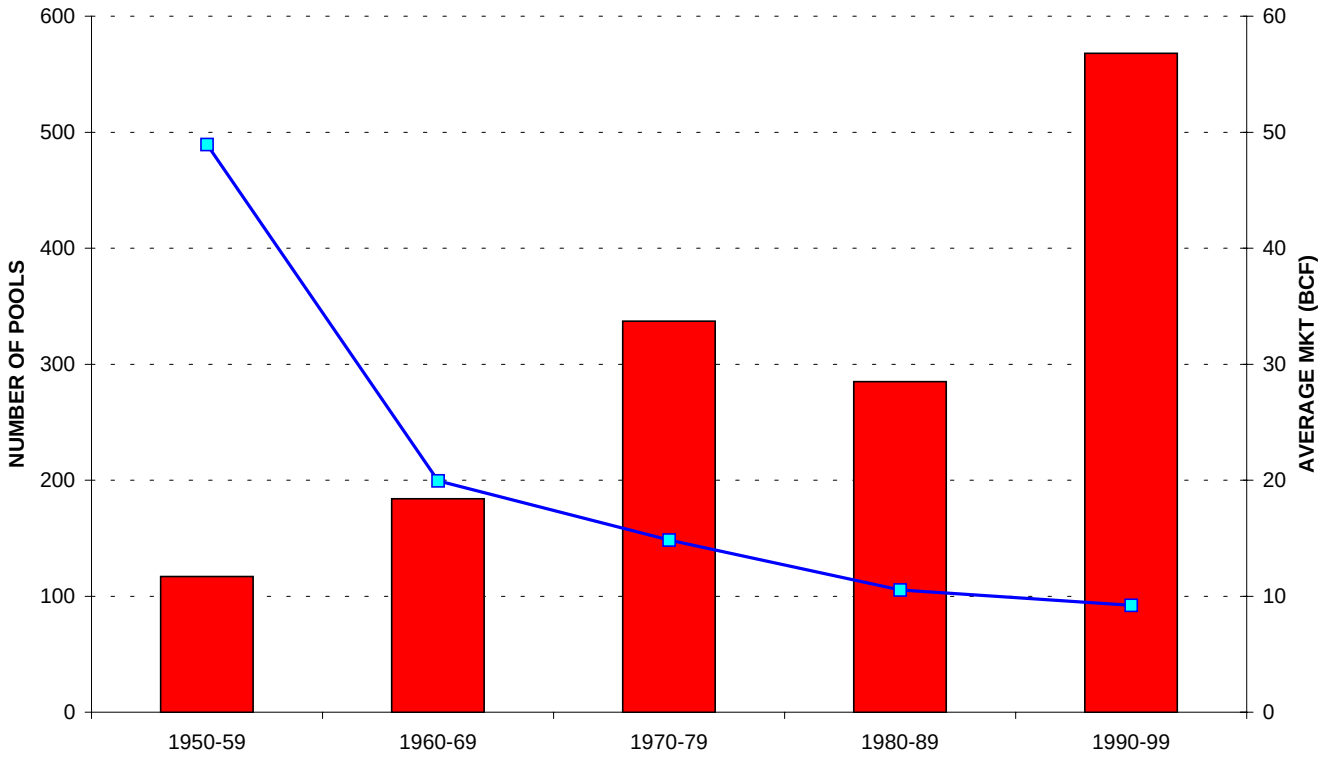
PERCENTAGE DISTRIBUTION

AREA	NUMBER	GAS-IN-PLACE	RECOVERABLE	MARKETABLE
DEEP BASIN	7.0%	3.7%	4.0%	4.4%
PEACE RIVER ARCH	33.5%	19.7%	19.7%	20.0%
NORTHERN PLAINS	43.1%	32.8%	32.4%	33.5%
LIARD BASIN	0.2%	5.1%	5.0%	5.4%
GRIZZLY FOOTHILLS	7.4%	26.2%	28.2%	24.7%
NORTHWEST FOOTHILLS	8.8%	12.5%	10.8%	12.0%
TOTAL	100%	100%	100%	100%

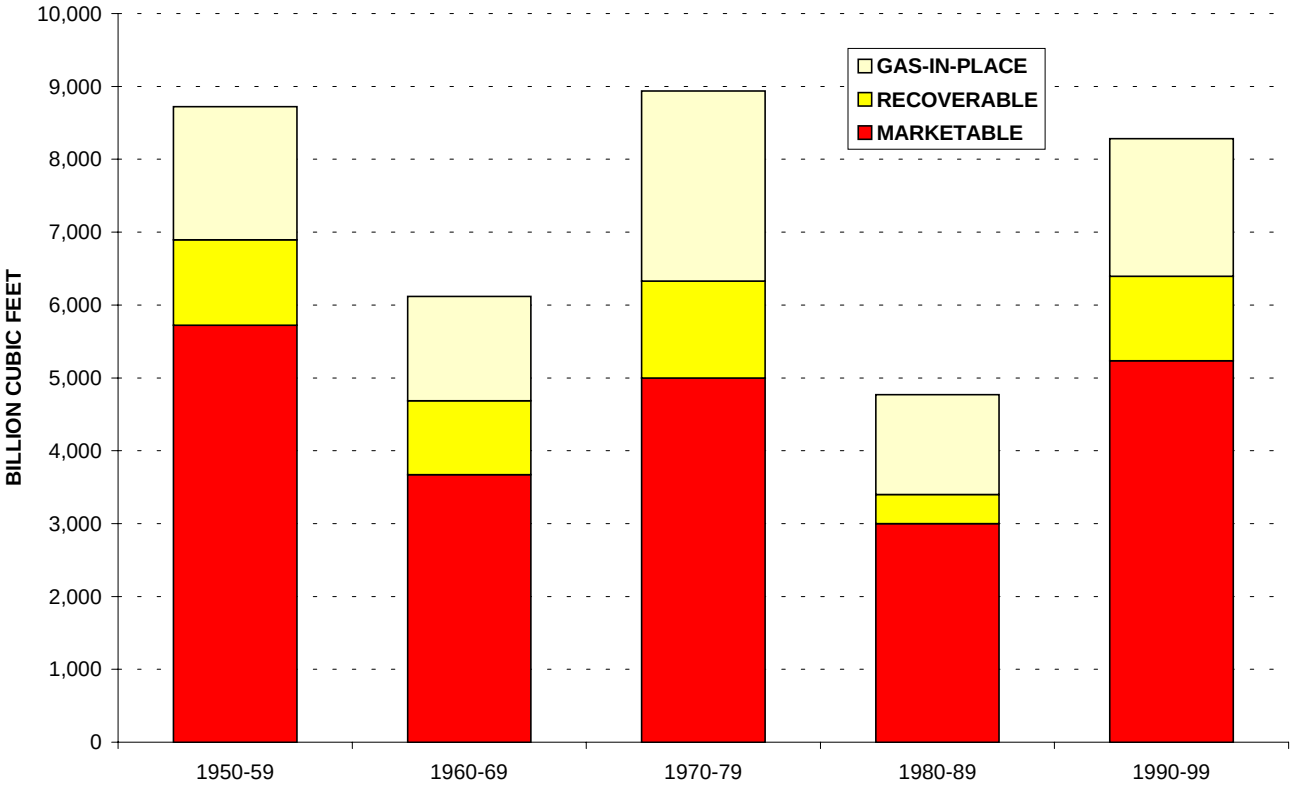
AVERAGE SIZE (BCF)

AREA	NUMBER	GAS-IN-PLACE	RECOVERABLE	MARKETABLE
DEEP BASIN	40	7.7	6.4	5.8
PEACE RIVER ARCH	190	8.6	6.6	5.5
NORTHERN PLAINS	245	11.1	8.4	7.2
LIARD BASIN	1	422.9	317.1	283.0
GRIZZLY FOOTHILLS	42	51.7	43.0	30.7
NORTHWEST FOOTHILLS	50	20.6	13.8	12.5
TOTAL	568	14.6	11.3	9.2

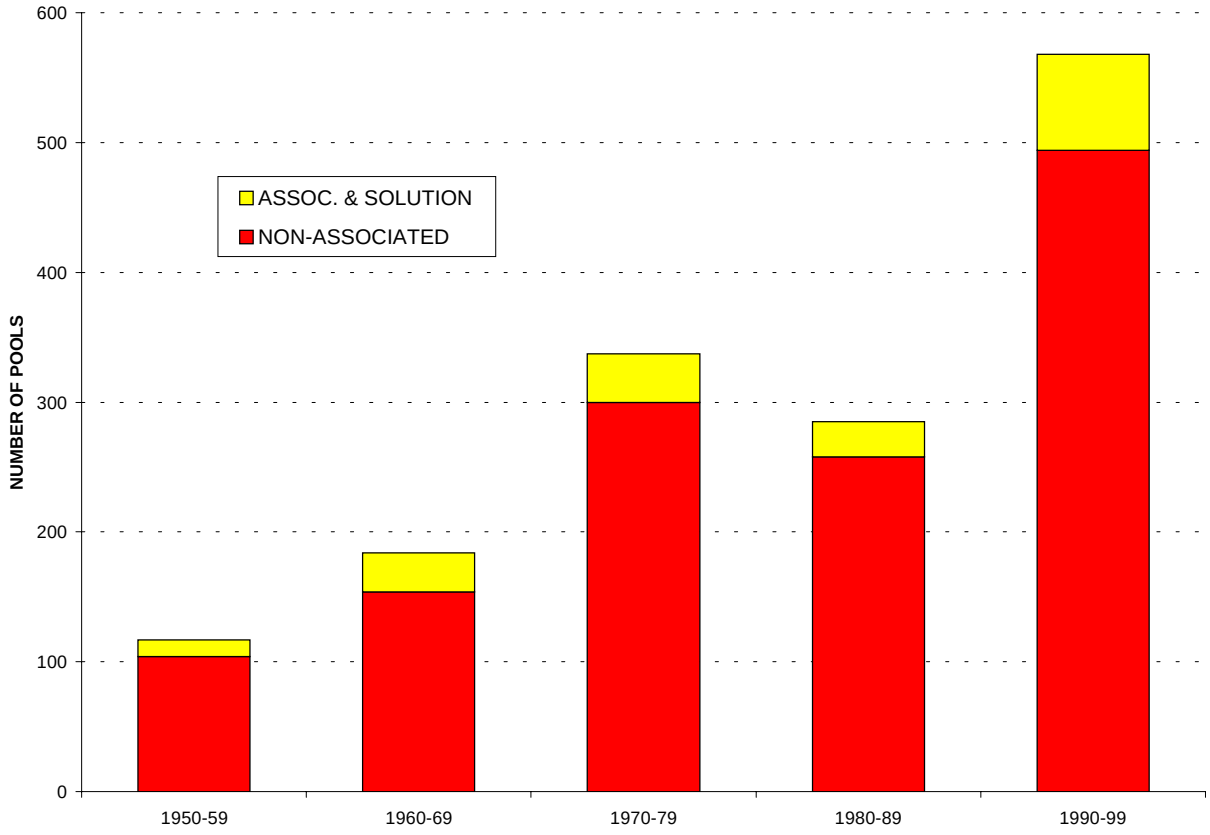
NORTHEAST BRITISH COLUMBIA - NUMBER OF POOLS AND AVERAGE SIZE (MARKETABLE) BY DECADE DISCOVERED



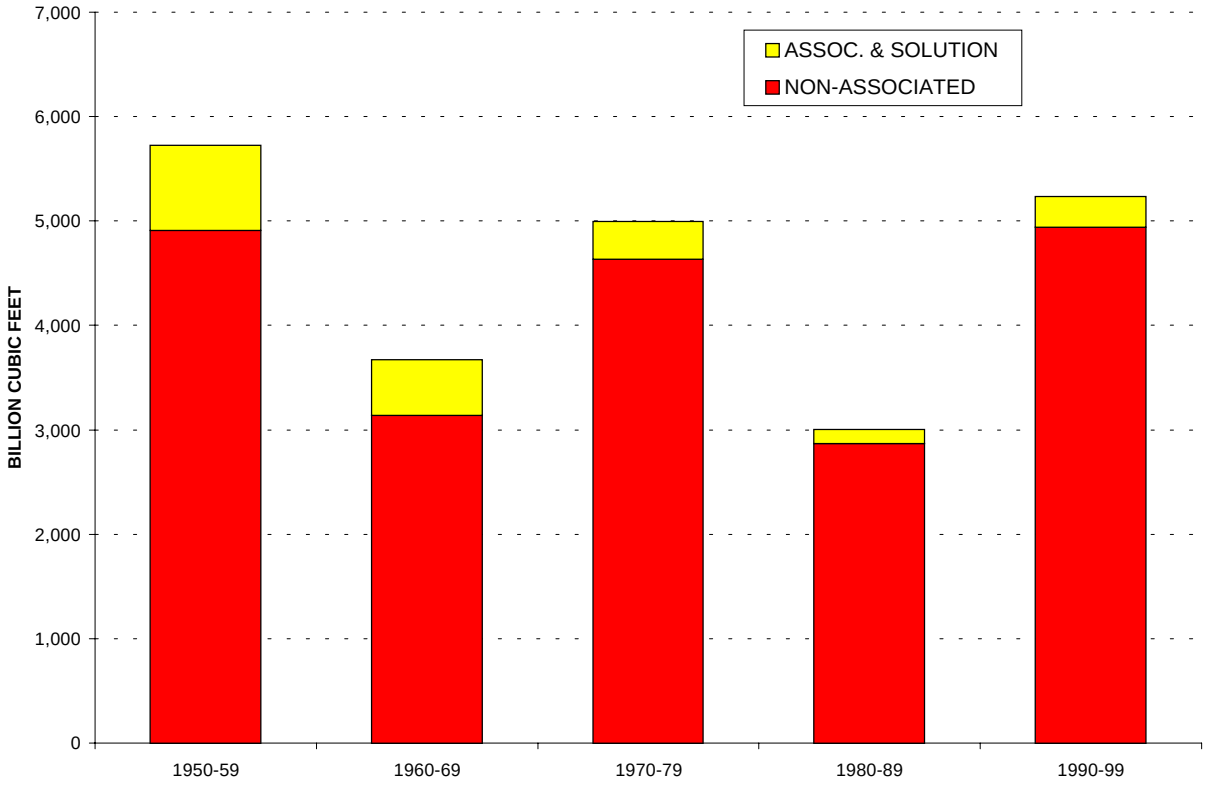
NORTHEAST BRITISH COLUMBIA GAS DISCOVERED BY DECADE



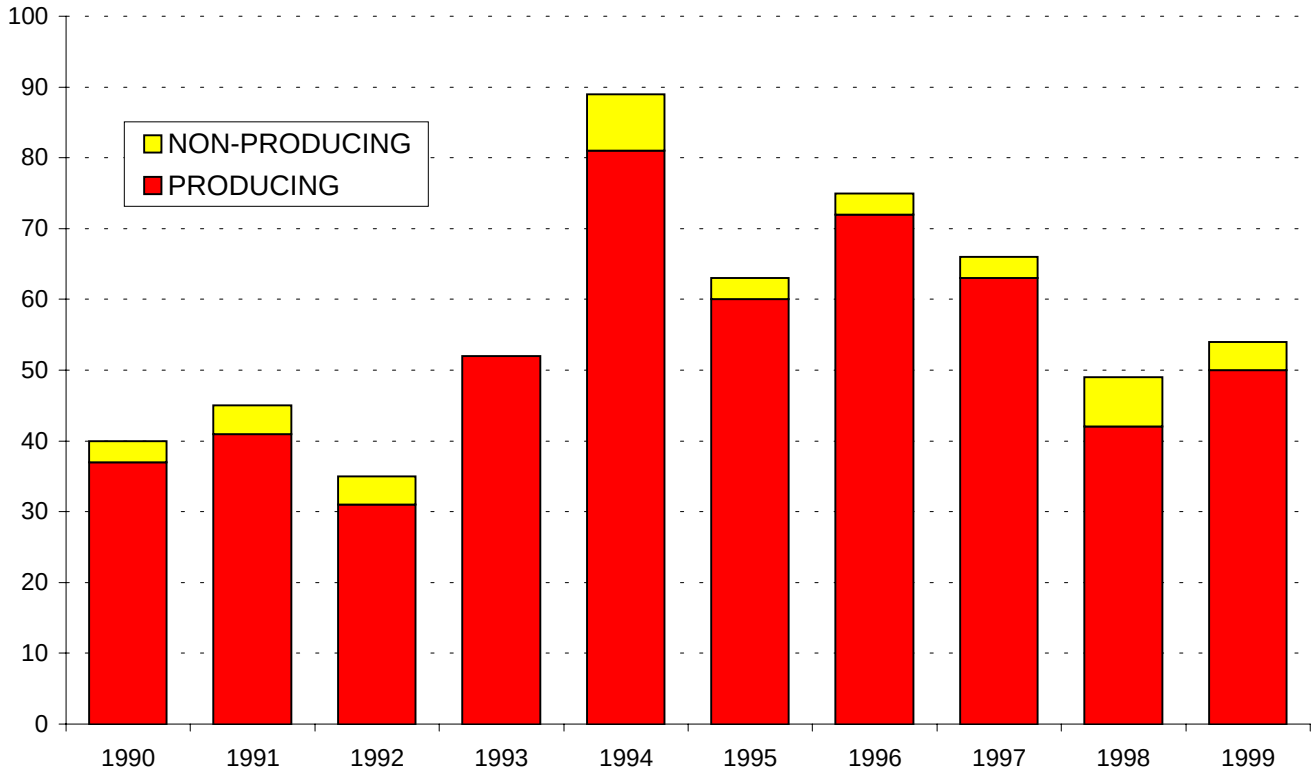
BRITISH COLUMBIA
NUMBER OF DISCOVERED GAS POOLS BY DECADE



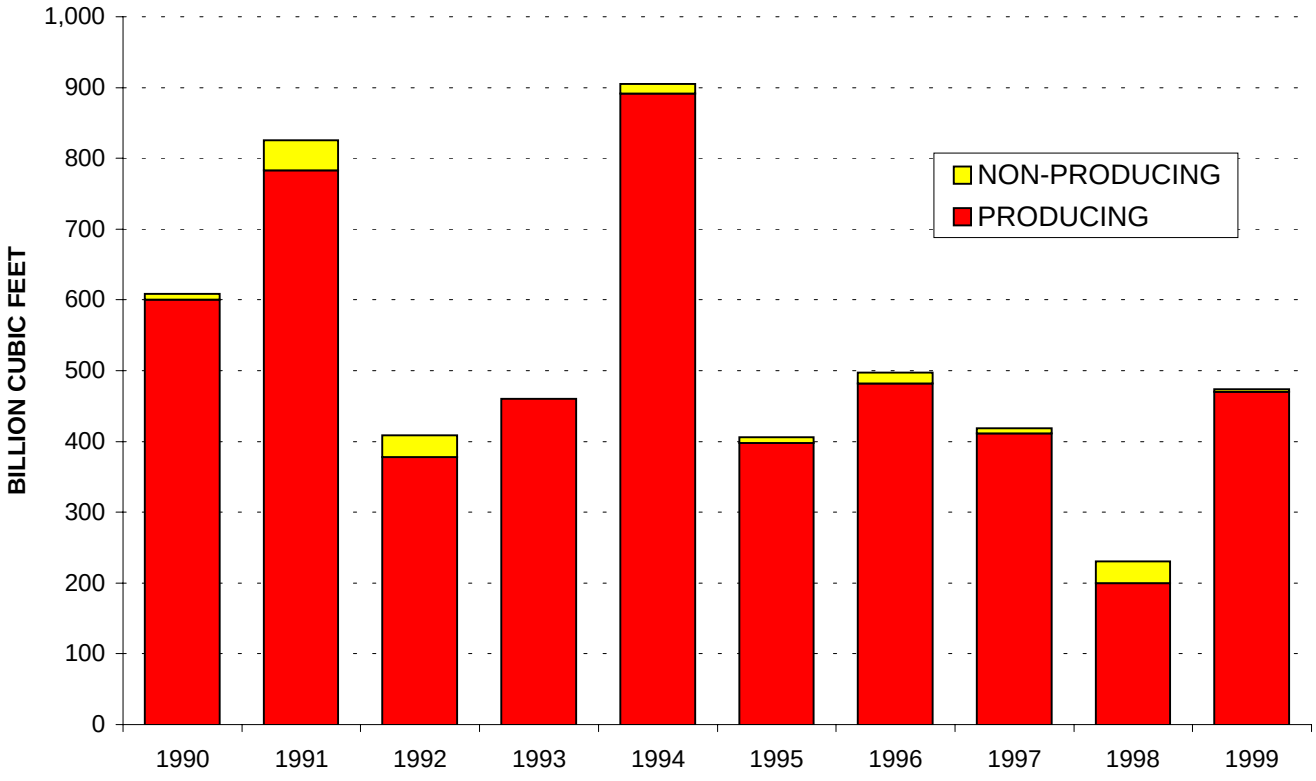
INITIAL MARKETABLE GAS BY DECADE



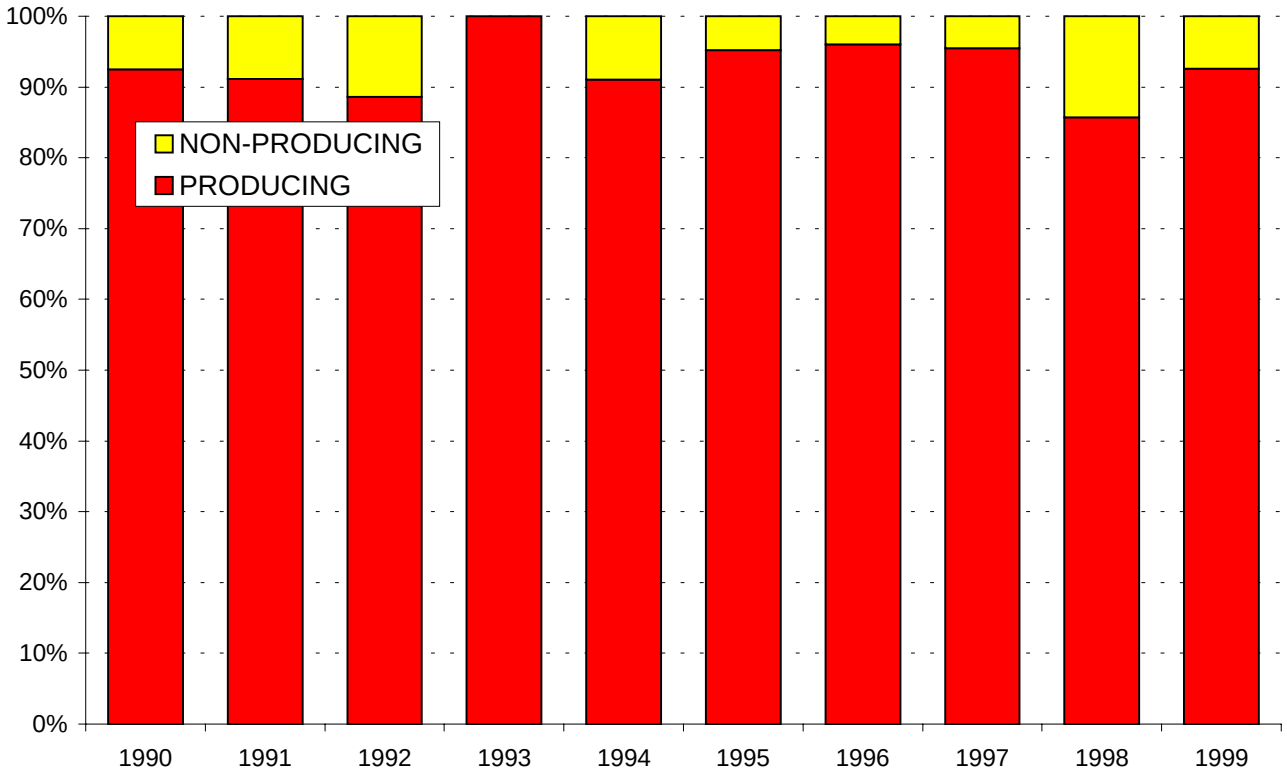
NORTHEAST BRITISH COLUMBIA NUMBER BY YEAR OF DISCOVERY
PRODUCING / NON-PRODUCING POOLS (DEC. 31, 2001)



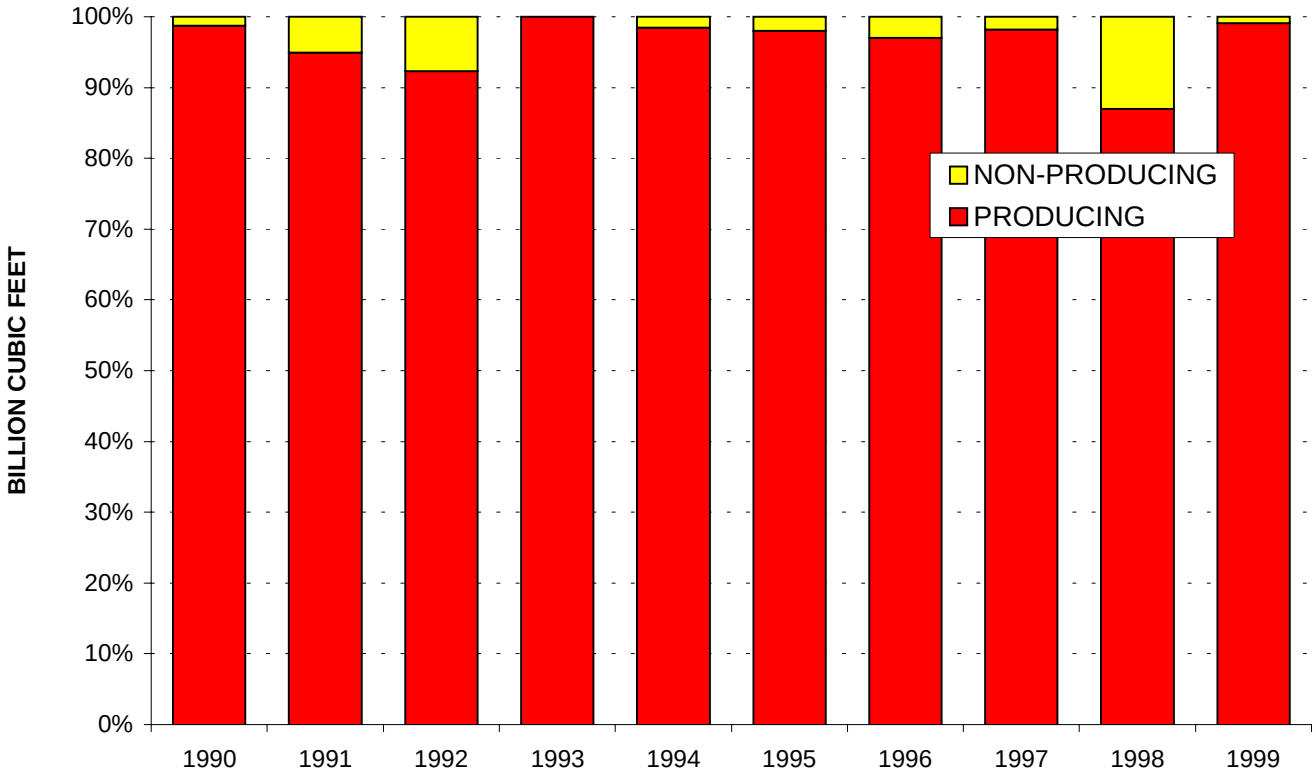
NORTHEAST BRITISH COLUMBIA MARKETABLE GAS
PRODUCING / NON-PRODUCING POOLS (DEC 31, 2001)



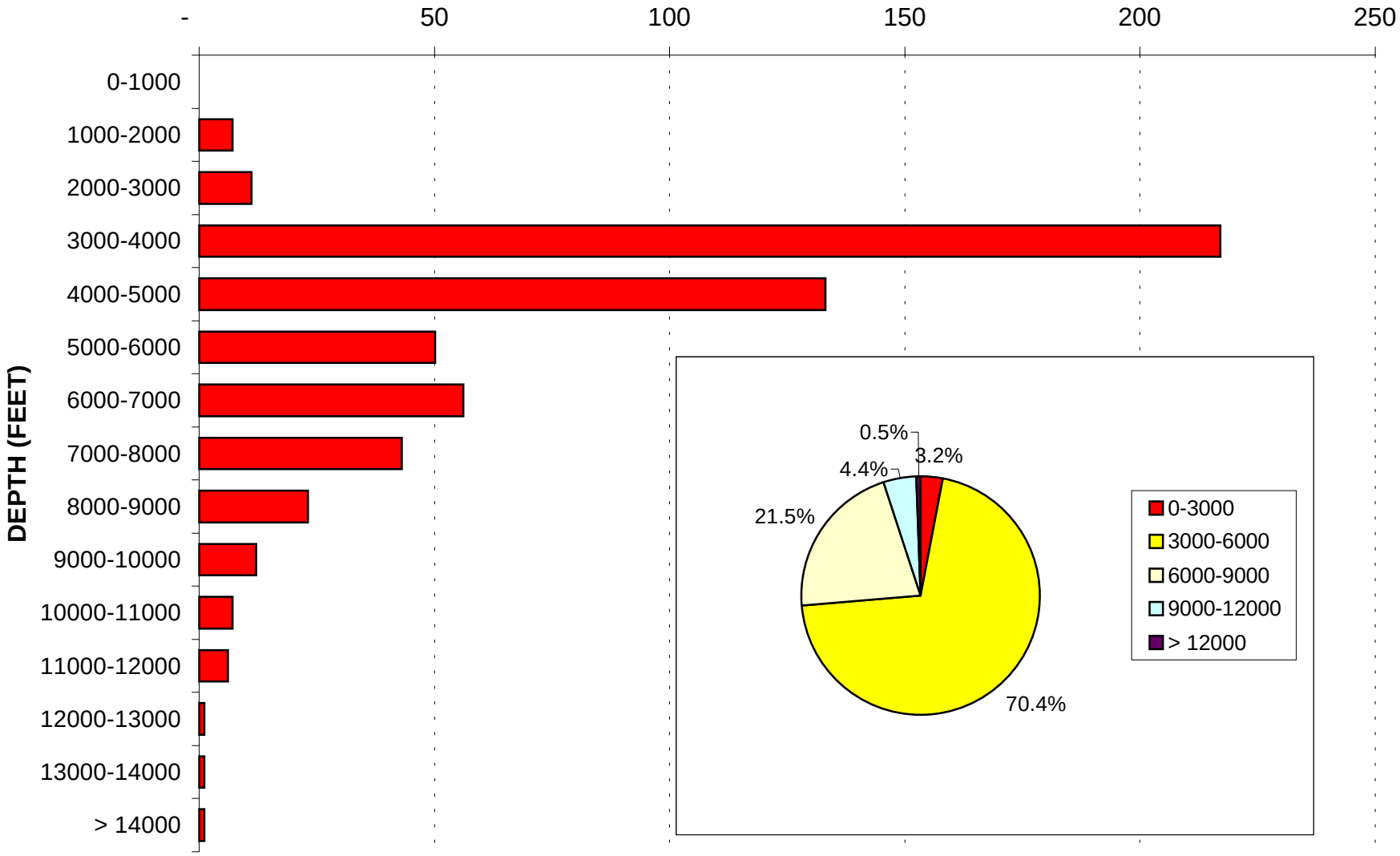
NORTHEAST BRITISH COLUMBIA NUMBER BY YEAR OF DISCOVERY
PERCENT PRODUCING / NON-PRODUCING POOLS (DEC. 31, 2001)



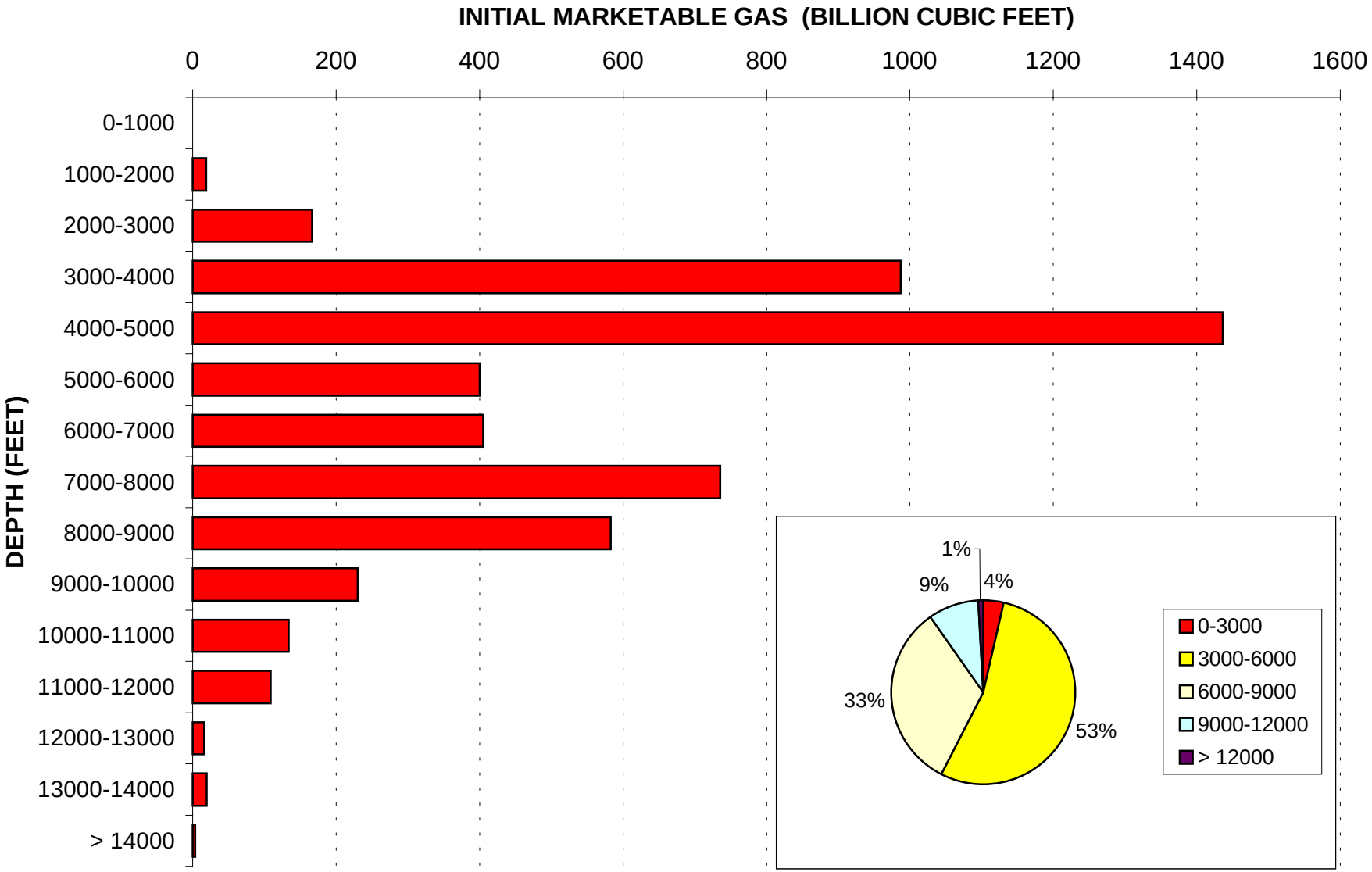
NORTHEAST BRITISH COLUMBIA MARKETABLE GAS
PERCENT PRODUCING / NON-PRODUCING POOLS (DEC 31, 2001)



BRITISH COLUMBIA GAS DISCOVERIES - BY DEPTH CLASS

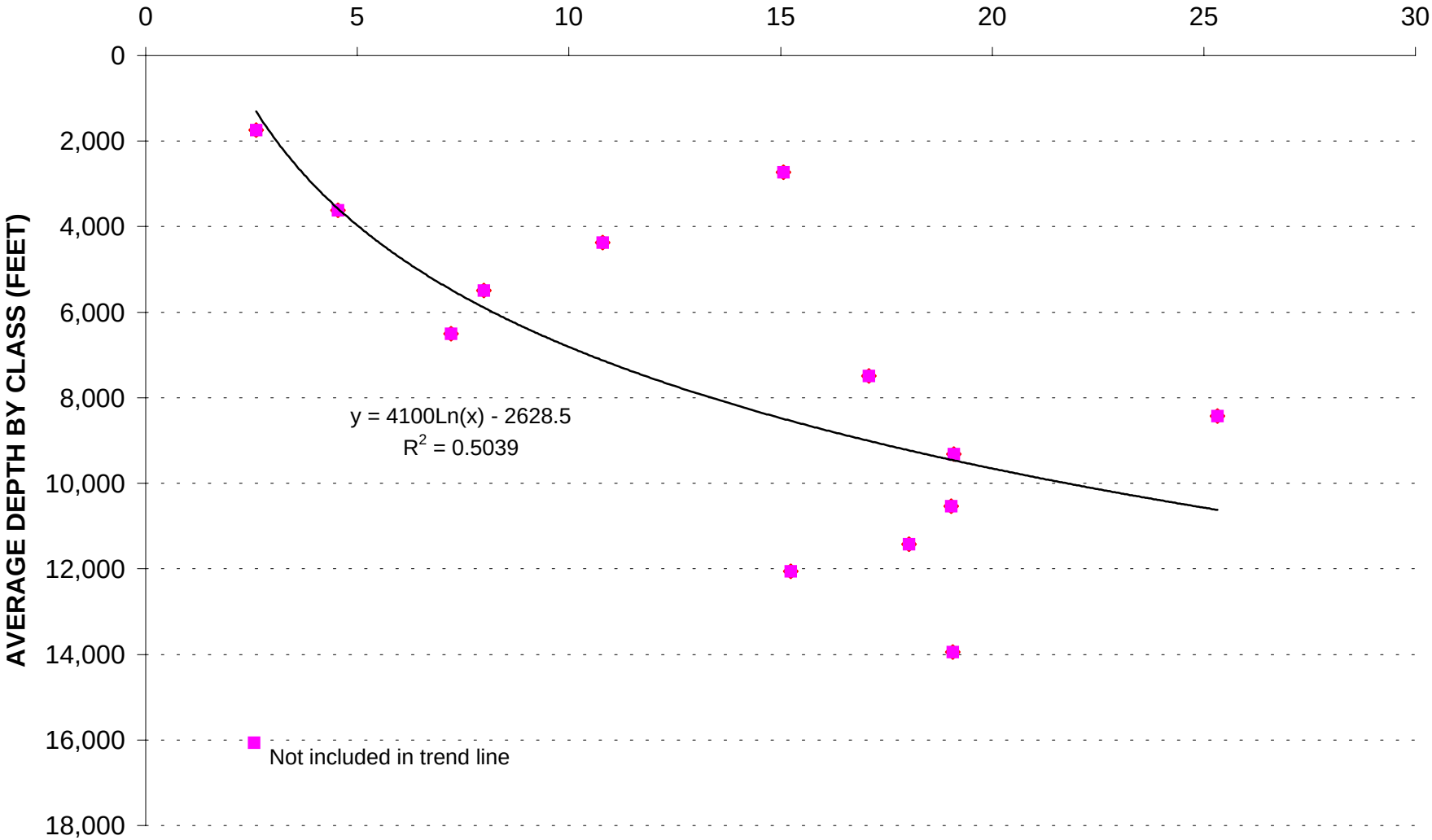


BRITISH COLUMBIA GAS DISCOVERIES - BY DEPTH CLASS



ALBERTA GAS DISCOVERIES - POOL SIZE vs DEPTH

AVERAGE POOL SIZE BY DEPTH CLASS (BCF)



BC_IMG by MFD90s_P.xls