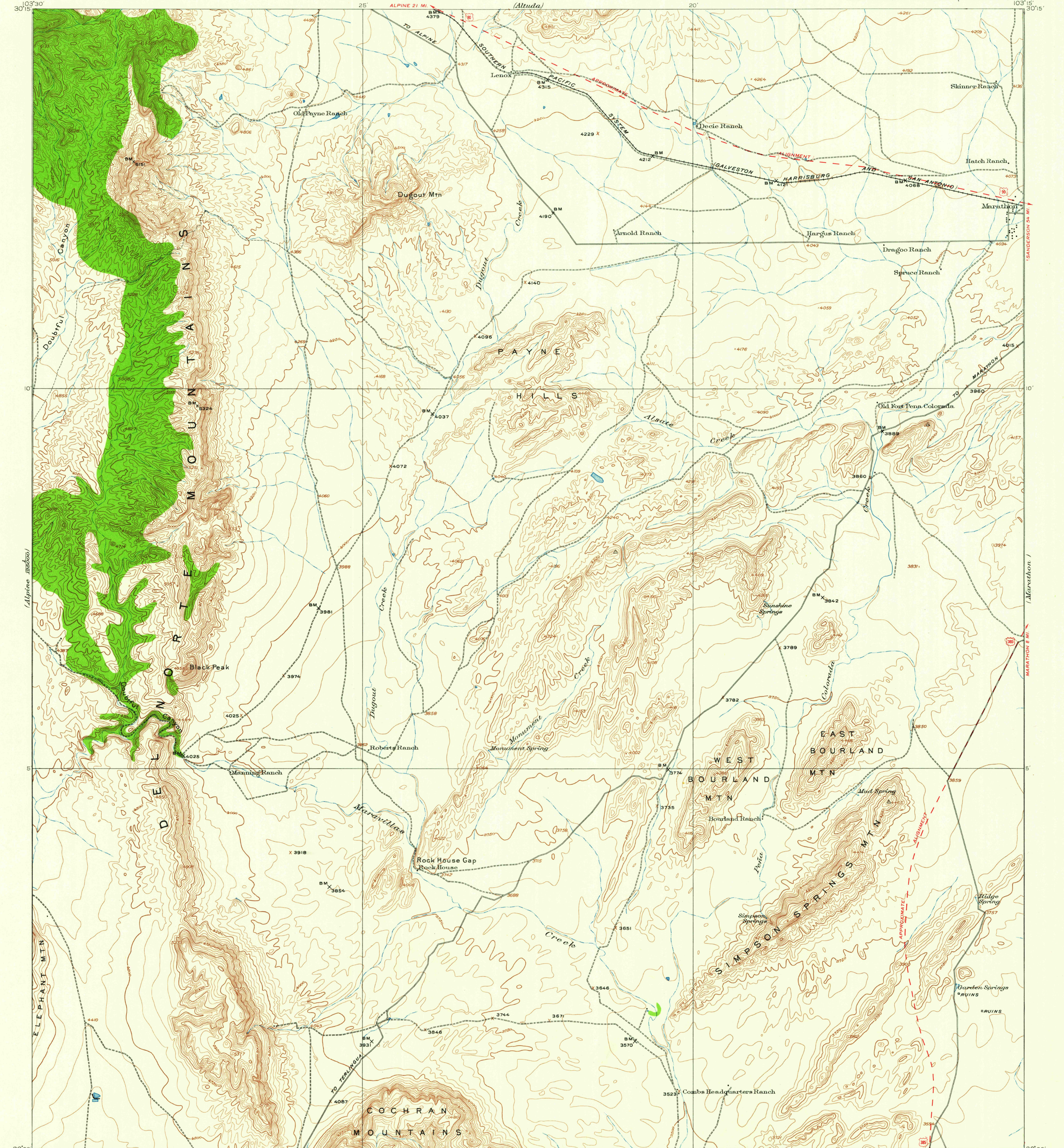




C.H. Birdseye, Chief Topographic Engineer.
T. G. Gerding, Geographer in charge.
Topography by R.C. Seitz, R.R. Monbeck,
W.B. Upton, Jr. and F.L. Whaley.
Control by U.S. Coast and Geodetic Survey,
R.M. Wilson, J.R. Ellis, D.S. Birkett, and James Dod.
Surveyed in 1919-1920.

SURVEYED IN COOPERATION WITH THE WAR DEPARTMENT AND
THE UNIVERSITY OF TEXAS.

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN
DECLINATION, 1920

SCALE 1:62,500
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
3000 6000 9000 12000 15000 18000 21000 24000 27000 30000 33000 36000 39000 42000 45000 48000 51000 54000 57000 60000 63000 66000 69000 72000 75000 78000 81000 84000 87000 90000 93000 96000 99000 102000 105000 108000 111000 114000 117000 120000 123000 126000 129000 132000 135000 138000 141000 144000 147000 150000 153000 156000 159000 162000 165000 168000 171000 174000 177000 180000 183000 186000 189000 192000 195000 198000 201000 204000 207000 210000 213000 216000 219000 222000 225000 228000 231000 234000 237000 240000 243000 246000 249000 252000 255000 258000 261000 264000 267000 270000 273000 276000 279000 282000 285000 288000 291000 294000 297000 300000 303000 306000 309000 312000 315000 318000 321000 324000 327000 330000 333000 336000 339000 342000 345000 348000 351000 354000 357000 360000 363000 366000 369000 372000 375000 378000 381000 384000 387000 390000 393000 396000 399000 402000 405000 408000 411000 414000 417000 420000 423000 426000 429000 432000 435000 438000 441000 444000 447000 450000 453000 456000 459000 462000 465000 468000 471000 474000 477000 480000 483000 486000 489000 492000 495000 498000 501000 504000 507000 510000 513000 516000 519000 522000 525000 528000 531000 534000 537000 540000 543000 546000 549000 552000 555000 558000 561000 564000 567000 570000 573000 576000 579000 582000 585000 588000 591000 594000 597000 600000 603000 606000 609000 612000 615000 618000 621000 624000 627000 630000 633000 636000 639000 642000 645000 648000 651000 654000 657000 660000 663000 666000 669000 672000 675000 678000 681000 684000 687000 690000 693000 696000 699000 702000 705000 708000 711000 714000 717000 720000 723000 726000 729000 732000 735000 738000 741000 744000 747000 750000 753000 756000 759000 762000 765000 768000 771000 774000 777000 780000 783000 786000 789000 792000 795000 798000 801000 804000 807000 810000 813000 816000 819000 822000 825000 828000 831000 834000 837000 840000 843000 846000 849000 852000 855000 858000 861000 864000 867000 870000 873000 876000 879000 882000 885000 888000 891000 894000 897000 900000 903000 906000 909000 912000 915000 918000 921000 924000 927000 930000 933000 936000 939000 942000 945000 948000 951000 954000 957000 960000 963000 966000 969000 972000 975000 978000 981000 984000 987000 990000 993000 996000 999000 1002000 1005000 1008000 1011000 1014000 1017000 1020000 1023000 1026000 1029000 1032000 1035000 1038000 1041000 1044000 1047000 1050000 1053000 1056000 1059000 1062000 1065000 1068000 1071000 1074000 1077000 1080000 1083000 1086000 1089000 1092000 1095000 1098000 1101000 1104000 1107000 1110000 1113000 1116000 1119000 1122000 1125000 1128000 1131000 1134000 1137000 1140000 1143000 1146000 1149000 1152000 1155000 1158000 1161000 1164000 1167000 1170000 1173000 1176000 1179000 1182000 1185000 1188000 1191000 1194000 1197000 1200000 1203000 1206000 1209000 1212000 1215000 1218000 1221000 1224000 1227000 1230000 1233000 1236000 1239000 1242000 1245000 1248000 1251000 1254000 1257000 1260000 1263000 1266000 1269000 1272000 1275000 1278000 1281000 1284000 1287000 1290000 1293000 1296000 1299000 1302000 1305000 1308000 1311000 1314000 1317000 1320000 1323000 1326000 1329000 1332000 1335000 1338000 1341000 1344000 1347000 1350000 1353000 1356000 1359000 1362000 1365000 1368000 1371000 1374000 1377000 1380000 1383000 1386000 1389000 1392000 1395000 1398000 1401000 1404000 1407000 1410000 1413000 1416000 1419000 1422000 1425000 1428000 1431000 1434000 1437000 1440000 1443000 1446000 1449000 1452000 1455000 1458000 1461000 1464000 1467000 1470000 1473000 1476000 1479000 1482000 1485000 1488000 1491000 1494000 1497000 1500000 1503000 1506000 1509000 1512000 1515000 1518000 1521000 1524000 1527000 1530000 1533000 1536000 1539000 1542000 1545000 1548000 1551000 1554000 1557000 1560000 1563000 1566000 1569000 1572000 1575000 1578000 1581000 1584000 1587000 1590000 1593000 1596000 1599000 1602000 1605000 1608000 1611000 1614000 1617000 1620000 1623000 1626000 1629000 1632000 1635000 1638000 1641000 1644000 1647000 1650000 1653000 1656000 1659000 1662000 1665000 1668000 1671000 1674000 1677000 1680000 1683000 1686000 1689000 1692000 1695000 1698000 1701000 1704000 1707000 1710000 1713000 1716000 1719000 1722000 1725000 1728000 1731000 1734000 1737000 1740000 1743000 1746000 1749000 1752000 1755000 1758000 1761000 1764000 1767000 1770000 1773000 1776000 1779000 1782000 1785000 1788000 1791000 1794000 1797000 1800000 1803000 1806000 1809000 1812000 1815000 1818000 1821000 1824000 1827000 1830000 1833000 1836000 1839000 1842000 1845000 1848000 1851000 1854000 1857000 1860000 1863000 1866000 1869000 1872000 1875000 1878000 1881000 1884000 1887000 1890000 1893000 1896000 1899000 1902000 1905000 1908000 1911000 1914000 1917000 1920000 1923000 1926000 1929000 1932000 1935000 1938000 1941000 1944000 1947000 1950000 1953000 1956000 1959000 1962000 1965000 1968000 1971000 1974000 1977000 1980000 1983000 1986000 1989000 1992000 1995000 1998000 2001000 2004000 2007000 2010000 2013000 2016000 2019000 2022000 2025000 2028000 2031000 2034000 2037000 2040000 2043000 2046000 2049000 2052000 2055000 2058000 2061000 2064000 2067000 2070000 2073000 2076000 2079000 2082000 2085000 2088000 2091000 2094000 2097000 2100000 2103000 2106000 2109000 2112000 2115000 2118000 2121000 2124000 2127000 2130000 2133000 2136000 2139000 2142000 2145000 2148000 2151000 2154000 2157000 2160000 2163000 2166000 2169000 2172000 2175000 2178000 2181000 2184000 2187000 2190000 2193000 2196000 2199000 2202000 2205000 2208000 2211000 2214000 2217000 2220000 2223000 2226000 2229000 2232000 2235000 2238000 2241000 2244000 2247000 2250000 2253000 2256000 2259000 2262000 2265000 2268000 2271000 2274000 2277000 2280000 2283000 2286000 2289000 2292000 2295000 2298000 2301000 2304000 2307000 2310000 2313000 2316000 2319000 2322000 2325000 2328000 2331000 2334000 2337000 2340000 2343000 2346000 2349000 2352000 2355000 2358000 2361000 2364000 2367000 2370000 2373000 2376000 2379000 2382000 2385000 2388000 2391000 2394000 2397000 2400000 2403000 2406000 2409000 2412000 2415000 2418000 2421000 2424000 2427000 2430000 2433000 2436000 2439000 2442000 2445000 2448000 2451000 2454000 2457000 2460000 2463000 2466000 2469000 2472000 2475000 2478000 2481000 2484000 2487000 2490000 2493000 2496000 2499000 2502000 2505000 2508000 2511000 2514000 2517000 2520000 2523000 2526000 2529000 2532000 2535000 2538000 2541000 2544000 2547000 2550000 2553000 2556000 2559000 2562000 2565000 2568000 2571000 2574000 2577000 2580000 2583000 2586000 2589000 2592000 2595000 2598000 2601000 2604000 2607000 2610000 2613000 2616000 2619000 2622000 2625000 2628000 2631000 2634000 2637000 2640000 2643000 2646000 2649000 2652000 2655000 2658000 2661000 2664000 2667000 2670000 2673000 2676000 2679000 2682000 2685000 2688000 2691000 2694000 2697000 2700000 2703000 2706000 2709000 2712000 2715000 2718000 2721000 2724000 2727000 2730000 2733000 2736000 2739000 2742000 2745000 2748000 2751000 2754000 2757000 2760000 2763000 2766000 2769000 2772000 2775000 2778000 2781000 2784000 2787000 2790000 2793000 2796000 2799000 2802000 2805000 2808000 2811000 2814000 2817000 2820000 2823000 2826000 2829000 2832000 2835000 2838000 2841000 2844000 2847000 2850000 2853000 2856000 2859000 2862000 2865000 2868000 2871000 2874000 2877000 2880000 2883000 2886000 2889000 2892000 2895000 2898000 2901000 2904000 2907000 2910000 2913000 2916000 2919000 2922000 2925000 2928000 2931000 2934000 2937000 2940000 2943000 2946000 2949000 2952000 2955000 2958000 2961000 2964000 2967000 2970000 2973000 2976000 2979000 2982000 2985000 2988000 2991000 2994000 2997000 3000000 3003000 3006000 3009000 3012000 3015000 3018000 3021000 3024000 3027000 3030000 3033000 3036000 3039000 3042000 3045000 3048000 3051000 3054000 3057000 3060000 3063000 3066000 3069000 3072000 3075000 3078000 3081000 3084000 3087000 3090000 3093000 3096000 3099000 3102000 3105000 3108000 3111000 3114000 3117000 3120000 3123000 3126000 3129000 3132000 3135000 3138000 3141000 3144000 3147000 3150000 3153000 3156000 3159000 3162000 3165000 3168000 3171000 3174000 3177000 3180000 3183000 3186000 3189000 3192000 3195000 3198000 3201000 3204000 3207000 3210000 3213000 3216000 3219000 3222000 3225000 3228000 3231000 3234000 3237000 3240000 3243000 3246000 3249000 3252000 3255000 3258000 3261000 3264000 3267000 3270000 3273000 3276000 3279000 3282000 3285000 3288000 3291000 3294000 3297000 3300000 3303000 3306000 3309000 3312000 3315000 3318000 3321000 3324000 3327000 3330000 3333000 3336000 3339000 3342000 3345000 3348000 3351000 3354000 3357000 3360000 3363000 3366000 3369000 3372000 3375000 3378000 3381000 3384000 3387000 3390000 3393000 3396000 3399000 3402000 3405000 3408000 3411000 3414000 3417000 3420000 3423000 3426000 3429000 3432000 3435000 3438000 3441000 3444000 3447000 3450000 3453000 3456000 3459000 3462000 3465000 3468000 3471000 3474000 3477000 3480000 3483000 3486000 3489000 3492000 3495000 3498000 3501000 3504000 3507000 3510000 3513000 3516000 3519000 3522000 3525000 3528000 3531000 3534000 3537000 3540000 3543000 3546000 3549000 3552000 3555000 3558000 3561000 3564000 3567000 3570000 3573000 3576000 3579000 3582000 3585000 3588000 3591000 3594000 3597000 3600000 3603000 3606000 3609000 3612000 3615000 3618000 3621000 3624000 3627000 3630000 3633000 3636000 3639000 3642000 3645000 3648000 3651000 3654000 3657000 3660000 3663000 3666000 3669000 3672000 3675000 3678000 3681000 3684000 3687000 3690000 3693000 3696000 3699000 3702000 3705000 3708000 3711000 3714000 3717000 3720000 3723000 3726000 3729000 3732000 3735000 3738000 3741000 3744000 3747000 3750000 3753000 3756000 3759000 3762000 3765000 3768000 3771000 3774000 3777000 3780000 3783000 3786000 3789000 3792000 3795000 3798000 3801000 3804000 3807000 3810000 3813000 3816000 3819000 3822000 3825000 3828000 3831000 3834000 3837000 3840000 3843000 3846000 3849000 3852000 3855000 3858000 3861000 3864000 3867000 3870000 3873000 3876000 3879000 3882000 3885000 3888000 3891000 3894000 3897000 3900000 3903000 3906000 3909000 3912000 3915000 3918000 3921000 3924000 3927000 3930000 3933000 3936000 3939000 3942000 3945000 3948000 3951000 3954000 3957000 3960000 3963000 3966000 3969000 3972000 3975000 3978000 3981000 3984000 3987000 3990000 3993000 3996000 3999000 4002000 4005000 4008000 4011000 4014000 4017000 4020000 4023000 4026000 4029000 4032000 4035000 4038000 4041000 4044000 4047000 4050000 4053000 4056000 4059000 4062000 4065000 4068000 4071000 4074000 4077000 4080000 4083000 4086000 4089000 4092000 4095000 4098000 4101000 4104000 4107000 4110000 4113000 4116000 4119000 4122000 4125000 4128000 4131000 4134000 4137000 4140000 4143000 4146000 4149000 4152000 4155000 4158000 4161000 4164000 4167000 4170000 4173000 4176000 4179000 4182000 4185000 4188000 4191000 4194000 4197000 4200000 4203000 4206000 4209000 4212000 4215000 4218000 4221000 4224000 4227000 4230000 4233000 4236000 4239000 4242000 4245000 4248000 4251000 4254000 4257000 4260000 4263000 4266000 4269000 4272000 4275000 4278000 4281000 4284000 4287000 4290000 4293000 4296000 4299000 4302000 4305000 4308000 4311000 4314000 4317000 4320000 4323000 4326000 4329000 4332000 4335000 4338000 4341000 4344000 4347000 4350000 4353000 4356000 4359000 4362000 4365000 4368000 4371000 4374000 4377000 4380000 4383000 4386000 4389000 4392000 4395000 4398000 4401000 4404000 4407000 44