python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 10 --output-freq 100 -o result\_rain10.mp4 --save --source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 160.84 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26s. Stored steady\_state\_h.

--- Starting Phase 2: Rainfall & WSE Monitoring (30000 steps) ---

Added rainfall: rate=2.777777777777778e-06 m/s, duration=30000 steps

Added rainfall for Phase 2: 10.0 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337685336m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39721.0m³

Step 100/29999, Sim Time: 55.080s (+5.453e-01s), Max Depth: 0.7339514992m, Max Vel: 0.5258171237m/s, Area: 130825.0m², Vol: 39865.8m³

Step 200/29999, Sim Time: 109.609s (+5.452e-01s), Max Depth: 0.7341301451m, Max Vel: 0.5259713818m/s, Area: 130825.0m², Vol: 40009.7m³

Step 300/29999, Sim Time: 164.128s (+5.451e-01s), Max Depth: 0.7343164511m, Max Vel: 0.5261905542m/s, Area: 130850.0m², Vol: 40153.1m³

Step 400/29999, Sim Time: 218.639s (+5.451e-01s), Max Depth: 0.7344960338m, Max Vel: 0.5263247609m/s, Area: 130925.0m², Vol: 40296.0m³

Step 500/29999, Sim Time: 273.142s (+5.450e-01s), Max Depth: 0.7346674213m, Max Vel: 0.5264561829m/s, Area: 130975.0m², Vol: 40438.5m³

Step 600/29999, Sim Time: 327.637s (+5.449e-01s), Max Depth: 0.7348264961m, Max Vel: 0.5265723202m/s, Area: 131025.0m², Vol: 40581.0m³

Step 700/29999, Sim Time: 382.127s (+5.449e-01s), Max Depth: 0.7349699589m, Max Vel: 0.5266863132m/s, Area: 131075.0m², Vol: 40723.2m³

Step 800/29999, Sim Time: 436.609s (+5.448e-01s), Max Depth: 0.7350961214m, Max Vel: 0.5268056163m/s, Area: 131125.0m², Vol: 40865.4m³

Step 900/29999, Sim Time: 491.087s (+5.447e-01s), Max Depth: 0.7352035214m, Max Vel: 0.5269279611m/s, Area: 131200.0m², Vol: 41007.6m³

Step 1000/29999, Sim Time: 545.559s (+5.447e-01s), Max Depth: 0.7352909856m, Max Vel: 0.5270700187m/s, Area: 131300.0m², Vol: 41150.3m³

Step 1100/29999, Sim Time: 600.026s (+5.446e-01s), Max Depth: 0.7353611513m, Max Vel: 0.5272292926m/s, Area: 131300.0m², Vol: 41292.6m³

Step 1200/29999, Sim Time: 654.488s (+5.446e-01s), Max Depth: 0.7354081202m, Max Vel: 0.5273817842m/s, Area: 131325.0m², Vol: 41434.4m³

Step 1300/29999, Sim Time: 708.947s (+5.446e-01s), Max Depth: 0.7354355677m, Max Vel: 0.5275388070m/s, Area: 131375.0m², Vol: 41576.0m³

Step 1400/29999, Sim Time: 763.402s (+5.445e-01s), Max Depth: 0.7354439297m, Max Vel: 0.5276943430m/s, Area: 131350.0m², Vol: 41717.3m³

Step 1500/29999, Sim Time: 817.855s (+5.445e-01s), Max Depth: 0.7354337953m, Max Vel: 0.5278514153m/s, Area: 131450.0m², Vol: 41858.1m³

Step 1600/29999, Sim Time: 872.306s (+5.445e-01s), Max Depth: 0.7354065393m, Max Vel: 0.5280099380m/s, Area: 131525.0m², Vol: 41999.1m³

Step 1700/29999, Sim Time: 926.755s (+5.445e-01s), Max Depth: 0.7353636802m, Max Vel: 0.5281688960m/s, Area: 131550.0m², Vol: 42140.1m³

Step 1800/29999, Sim Time: 981.203s (+5.445e-01s), Max Depth: 0.7353065945m, Max Vel: 0.5283287984m/s, Area: 131575.0m², Vol: 42280.8m³

Step 1900/29999, Sim Time: 1035.651s (+5.445e-01s), Max Depth: 0.7352366377m, Max Vel: 0.5284888897m/s, Area: 131625.0m², Vol: 42421.2m³

Step 2000/29999, Sim Time: 1090.098s (+5.445e-01s), Max Depth: 0.7351554031m, Max Vel: 0.5286547713m/s, Area: 131700.0m², Vol: 42561.3m³

Step 2100/29999, Sim Time: 1144.544s (+5.445e-01s), Max Depth: 0.7350651953m, Max Vel: 0.5288317733m/s, Area: 131750.0m², Vol: 42701.3m³

Step 2200/29999, Sim Time: 1198.991s (+5.445e-01s), Max Depth: 0.7349679335m, Max Vel: 0.5290273430m/s, Area: 131775.0m², Vol: 42841.3m³

Step 2300/29999, Sim Time: 1253.437s (+5.445e-01s), Max Depth: 0.7348649797m, Max Vel: 0.5292082159m/s, Area: 131850.0m², Vol: 42981.1m³

Step 2400/29999, Sim Time: 1307.883s (+5.445e-01s), Max Depth: 0.7347567718m, Max Vel: 0.5294126177m/s, Area: 131850.0m², Vol: 43120.7m³

Step 2500/29999, Sim Time: 1362.330s (+5.445e-01s), Max Depth: 0.7346474866m, Max Vel: 0.5295972703m/s, Area: 131900.0m², Vol: 43259.9m³

Step 2600/29999, Sim Time: 1416.777s (+5.445e-01s), Max Depth: 0.7345301344m, Max Vel: 0.5297797660m/s, Area: 131950.0m², Vol: 43398.8m³

Step 2700/29999, Sim Time: 1471.224s (+5.445e-01s), Max Depth: 0.7344043122m, Max Vel: 0.5299541963m/s, Area: 132000.0m², Vol: 43537.6m³

Step 2800/29999, Sim Time: 1525.673s (+5.445e-01s), Max Depth: 0.7342711859m, Max Vel: 0.5301239778m/s, Area: 132000.0m², Vol: 43676.1m³

Step 2900/29999, Sim Time: 1580.123s (+5.445e-01s), Max Depth: 0.7341324932m, Max Vel: 0.5302935836m/s, Area: 132100.0m², Vol: 43814.5m³

Step 3000/29999, Sim Time: 1634.574s (+5.445e-01s), Max Depth: 0.7339892852m, Max Vel: 0.5304600739m/s, Area: 132125.0m², Vol: 43953.0m³

Step 3100/29999, Sim Time: 1689.027s (+5.445e-01s), Max Depth: 0.7338430446m, Max Vel: 0.5306226039m/s, Area: 132125.0m², Vol: 44091.5m³

Step 3200/29999, Sim Time: 1743.482s (+5.446e-01s), Max Depth: 0.7336955279m, Max Vel: 0.5307809278m/s, Area: 132125.0m², Vol: 44229.7m³

Step 3300/29999, Sim Time: 1797.939s (+5.446e-01s), Max Depth: 0.7335479499m, Max Vel: 0.5309347021m/s, Area: 132175.0m², Vol: 44367.6m³

Step 3400/29999, Sim Time: 1852.398s (+5.446e-01s), Max Depth: 0.7334014595m, Max Vel: 0.5310840803m/s, Area: 132175.0m², Vol: 44505.5m³

Step 3500/29999, Sim Time: 1906.859s (+5.446e-01s), Max Depth: 0.7332572541m, Max Vel: 0.5312291709m/s, Area: 132225.0m², Vol: 44643.3m³

Step 3600/29999, Sim Time: 1961.322s (+5.446e-01s), Max Depth: 0.7331163172m, Max Vel: 0.5313703164m/s, Area: 132275.0m², Vol: 44781.2m³

Step 3700/29999, Sim Time: 2015.787s (+5.447e-01s), Max Depth: 0.7329794680m, Max Vel: 0.5315080358m/s, Area: 132375.0m², Vol: 44919.2m³

Step 3800/29999, Sim Time: 2070.254s (+5.447e-01s), Max Depth: 0.7328474643m, Max Vel: 0.5316440754m/s, Area: 132450.0m², Vol: 45057.4m³

Step 3900/29999, Sim Time: 2124.722s (+5.447e-01s), Max Depth: 0.7327208230m, Max Vel: 0.5317770909m/s, Area: 132475.0m², Vol: 45196.1m³

Step 4000/29999, Sim Time: 2179.192s (+5.447e-01s), Max Depth: 0.7325998846m, Max Vel: 0.5319088135m/s, Area: 132500.0m², Vol: 45334.9m³

Step 4100/29999, Sim Time: 2233.663s (+5.447e-01s), Max Depth: 0.7324851902m, Max Vel: 0.5320451786m/s, Area: 132500.0m², Vol: 45473.8m³

Step 4200/29999, Sim Time: 2288.136s (+5.447e-01s), Max Depth: 0.7323777624m, Max Vel: 0.5322006800m/s, Area: 132500.0m², Vol: 45612.7m³

Step 4300/29999, Sim Time: 2342.609s (+5.447e-01s), Max Depth: 0.7322780794m, Max Vel: 0.5323479042m/s, Area: 132550.0m², Vol: 45751.9m³

Step 4400/29999, Sim Time: 2372.502s (+1.380e-01s), Max Depth: 0.7322254374m, Max Vel: 9.9999999990m/s, Area: 132550.0m², Vol: 45830.0m³

Step 4500/29999, Sim Time: 2386.303s (+1.380e-01s), Max Depth: 0.7322018368m, Max Vel: 9.9999999990m/s, Area: 132575.0m², Vol: 45867.0m³

Step 4600/29999, Sim Time: 2400.104s (+1.380e-01s), Max Depth: 0.7321786223m, Max Vel: 9.9999999991m/s, Area: 132625.0m², Vol: 45905.4m³

Step 4700/29999, Sim Time: 2430.333s (+5.447e-01s), Max Depth: 0.7321289413m, Max Vel: 0.5325879763m/s, Area: 132675.0m², Vol: 45987.7m³

Step 4800/29999, Sim Time: 2484.807s (+5.447e-01s), Max Depth: 0.7320436292m, Max Vel: 0.5327336254m/s, Area: 132725.0m², Vol: 46124.5m³

Step 4900/29999, Sim Time: 2539.281s (+5.447e-01s), Max Depth: 0.7319631101m, Max Vel: 0.5328783180m/s, Area: 132750.0m², Vol: 46262.8m³

Step 5000/29999, Sim Time: 2593.755s (+5.447e-01s), Max Depth: 0.7318872481m, Max Vel: 0.5330259835m/s, Area: 132775.0m², Vol: 46401.8m³

Step 5100/29999, Sim Time: 2648.229s (+5.447e-01s), Max Depth: 0.7318164054m, Max Vel: 0.5331751064m/s, Area: 132750.0m², Vol: 46540.9m³

Step 5200/29999, Sim Time: 2702.702s (+5.447e-01s), Max Depth: 0.7317586054m, Max Vel: 0.5333215468m/s, Area: 132725.0m², Vol: 46680.5m³

Step 5300/29999, Sim Time: 2757.174s (+5.447e-01s), Max Depth: 0.7317176264m, Max Vel: 0.5334606428m/s, Area: 132725.0m², Vol: 46820.2m³

Step 5400/29999, Sim Time: 2811.646s (+5.447e-01s), Max Depth: 0.7316918688m, Max Vel: 0.5335957135m/s, Area: 132750.0m², Vol: 46960.0m³

Step 5500/29999, Sim Time: 2863.592s (+4.151e-01s), Max Depth: 0.7316782935m, Max Vel: 1.5628875229m/s, Area: 132750.0m², Vol: 47093.6m³

Step 5600/29999, Sim Time: 2896.694s (+2.761e-01s), Max Depth: 0.7316735991m, Max Vel: 3.6773645394m/s, Area: 132775.0m², Vol: 47178.7m³

Step 5700/29999, Sim Time: 2921.211s (+2.209e-01s), Max Depth: 0.7316715304m, Max Vel: 5.2573849188m/s, Area: 132775.0m², Vol: 47241.7m³

Step 5800/29999, Sim Time: 2941.586s (+1.893e-01s), Max Depth: 0.7316704861m, Max Vel: 6.5765866672m/s, Area: 132775.0m², Vol: 47294.1m³

Step 5900/29999, Sim Time: 2959.392s (+1.682e-01s), Max Depth: 0.7316699399m, Max Vel: 7.7333937915m/s, Area: 132800.0m², Vol: 47339.9m³

Step 6000/29999, Sim Time: 2975.406s (+1.529e-01s), Max Depth: 0.7316696470m, Max Vel: 8.7760066032m/s, Area: 132800.0m², Vol: 47381.1m³

Step 6100/29999, Sim Time: 2990.076s (+1.411e-01s), Max Depth: 0.7316694829m, Max Vel: 9.7328972366m/s, Area: 132800.0m², Vol: 47418.9m³

Step 6200/29999, Sim Time: 3003.923s (+1.380e-01s), Max Depth: 0.7316693783m, Max Vel: 9.9999999990m/s, Area: 132800.0m², Vol: 47454.5m³

Step 6300/29999, Sim Time: 3017.725s (+1.380e-01s), Max Depth: 0.7316692891m, Max Vel: 9.9999999990m/s, Area: 132825.0m², Vol: 47490.0m³

Step 6400/29999, Sim Time: 3031.527s (+1.380e-01s), Max Depth: 0.7316691966m, Max Vel: 9.9999999990m/s, Area: 132850.0m², Vol: 47525.5m³

Step 6500/29999, Sim Time: 3045.330s (+1.380e-01s), Max Depth: 0.7316690880m, Max Vel: 9.9999999990m/s, Area: 132850.0m², Vol: 47561.0m³

Step 6600/29999, Sim Time: 3059.132s (+1.380e-01s), Max Depth: 0.7316689516m, Max Vel: 9.9999999990m/s, Area: 132850.0m², Vol: 47596.5m³

Step 6700/29999, Sim Time: 3072.934s (+1.380e-01s), Max Depth: 0.7316687714m, Max Vel: 9.9999999990m/s, Area: 132850.0m², Vol: 47632.0m³

Step 6800/29999, Sim Time: 3086.736s (+1.380e-01s), Max Depth: 0.7316685407m, Max Vel: 9.9999999990m/s, Area: 132875.0m², Vol: 47667.5m³

Step 6900/29999, Sim Time: 3116.557s (+5.446e-01s), Max Depth: 0.7316678877m, Max Vel: 0.5343546490m/s, Area: 132850.0m², Vol: 47744.4m³

Step 7000/29999, Sim Time: 3171.014s (+5.446e-01s), Max Depth: 0.7316652233m, Max Vel: 0.5345051842m/s, Area: 132850.0m², Vol: 47884.5m³

Step 7100/29999, Sim Time: 3225.469s (+5.445e-01s), Max Depth: 0.7316596517m, Max Vel: 0.5346604364m/s, Area: 132875.0m², Vol: 48024.4m³

Step 7200/29999, Sim Time: 3279.921s (+5.445e-01s), Max Depth: 0.7316508568m, Max Vel: 0.5348193384m/s, Area: 132925.0m², Vol: 48164.3m³

Step 7300/29999, Sim Time: 3334.371s (+5.445e-01s), Max Depth: 0.7316387396m, Max Vel: 0.5349832015m/s, Area: 133000.0m², Vol: 48304.4m³

Step 7400/29999, Sim Time: 3388.818s (+5.445e-01s), Max Depth: 0.7316265154m, Max Vel: 0.5351662091m/s, Area: 133025.0m², Vol: 48444.8m³

Step 7500/29999, Sim Time: 3443.262s (+5.444e-01s), Max Depth: 0.7316112173m, Max Vel: 0.5353433882m/s, Area: 133075.0m², Vol: 48584.1m³

Step 7600/29999, Sim Time: 3497.707s (+5.444e-01s), Max Depth: 0.7314618363m, Max Vel: 0.5355214370m/s, Area: 133100.0m², Vol: 48585.5m³

Step 7700/29999, Sim Time: 3552.153s (+5.445e-01s), Max Depth: 0.7313431020m, Max Vel: 0.5355317609m/s, Area: 133150.0m², Vol: 48589.2m³

Step 7800/29999, Sim Time: 3606.604s (+5.445e-01s), Max Depth: 0.7312433002m, Max Vel: 0.5354483452m/s, Area: 133225.0m², Vol: 48594.7m³

Step 7900/29999, Sim Time: 3661.058s (+5.446e-01s), Max Depth: 0.7311750793m, Max Vel: 0.5354198915m/s, Area: 133225.0m², Vol: 48599.0m³

Step 8000/29999, Sim Time: 3715.514s (+5.446e-01s), Max Depth: 0.7311337535m, Max Vel: 0.5353766795m/s, Area: 133250.0m², Vol: 48601.7m³

Step 8100/29999, Sim Time: 3769.973s (+5.446e-01s), Max Depth: 0.7311157620m, Max Vel: 0.5353362600m/s, Area: 133250.0m², Vol: 48603.9m³

Step 8200/29999, Sim Time: 3824.432s (+5.446e-01s), Max Depth: 0.7311157055m, Max Vel: 0.5352985998m/s, Area: 133250.0m², Vol: 48606.6m³

Step 8300/29999, Sim Time: 3878.891s (+5.446e-01s), Max Depth: 0.7311280711m, Max Vel: 0.5352658483m/s, Area: 133225.0m², Vol: 48609.8m³

Step 8400/29999, Sim Time: 3933.351s (+5.446e-01s), Max Depth: 0.7311478967m, Max Vel: 0.5352402341m/s, Area: 133175.0m², Vol: 48613.2m³

Step 8500/29999, Sim Time: 3977.231s (+3.289e-01s), Max Depth: 0.7311664715m, Max Vel: 2.6645717226m/s, Area: 133250.0m², Vol: 48616.5m³

Step 8600/29999, Sim Time: 4013.523s (+5.446e-01s), Max Depth: 0.7311823550m, Max Vel: 0.5352173197m/s, Area: 133175.0m², Vol: 48619.4m³

Step 8700/29999, Sim Time: 4067.981s (+5.446e-01s), Max Depth: 0.7312051959m, Max Vel: 0.5352123052m/s, Area: 133175.0m², Vol: 48624.0m³

Step 8800/29999, Sim Time: 4122.439s (+5.446e-01s), Max Depth: 0.7312254351m, Max Vel: 0.5352153874m/s, Area: 133175.0m², Vol: 48629.0m³

Step 8900/29999, Sim Time: 4176.896s (+5.446e-01s), Max Depth: 0.7312420882m, Max Vel: 0.5352258095m/s, Area: 133175.0m², Vol: 48634.6m³

Step 9000/29999, Sim Time: 4231.352s (+5.446e-01s), Max Depth: 0.7312547608m, Max Vel: 0.5352426601m/s, Area: 133225.0m², Vol: 48640.8m³

Step 9100/29999, Sim Time: 4285.808s (+5.446e-01s), Max Depth: 0.7312635517m, Max Vel: 0.5352652855m/s, Area: 133300.0m², Vol: 48647.5m³

Step 9200/29999, Sim Time: 4340.263s (+5.445e-01s), Max Depth: 0.7312688640m, Max Vel: 0.5352926096m/s, Area: 133325.0m², Vol: 48654.2m³

Step 9300/29999, Sim Time: 4394.717s (+5.445e-01s), Max Depth: 0.7312711939m, Max Vel: 0.5353237626m/s, Area: 133325.0m², Vol: 48660.6m³

Step 9400/29999, Sim Time: 4449.171s (+5.445e-01s), Max Depth: 0.7312711344m, Max Vel: 0.5353580349m/s, Area: 133350.0m², Vol: 48666.4m³

Step 9500/29999, Sim Time: 4503.624s (+5.445e-01s), Max Depth: 0.7312692461m, Max Vel: 0.5353946405m/s, Area: 133350.0m², Vol: 48671.8m³

Step 9600/29999, Sim Time: 4558.077s (+5.445e-01s), Max Depth: 0.7312660094m, Max Vel: 0.5354330257m/s, Area: 133350.0m², Vol: 48677.2m³

Step 9700/29999, Sim Time: 4612.529s (+5.445e-01s), Max Depth: 0.7312618243m, Max Vel: 0.5354727189m/s, Area: 133300.0m², Vol: 48682.9m³

Step 9800/29999, Sim Time: 4666.981s (+5.445e-01s), Max Depth: 0.7312570052m, Max Vel: 0.5355133747m/s, Area: 133350.0m², Vol: 48688.8m³

Step 9900/29999, Sim Time: 4721.432s (+5.445e-01s), Max Depth: 0.7312517894m, Max Vel: 0.5355548104m/s, Area: 133325.0m², Vol: 48695.0m³

Step 10000/29999, Sim Time: 4775.883s (+5.445e-01s), Max Depth: 0.7312463564m, Max Vel: 0.5355969432m/s, Area: 133350.0m², Vol: 48701.4m³

Step 10100/29999, Sim Time: 4830.333s (+5.445e-01s), Max Depth: 0.7312408215m, Max Vel: 0.5356396903m/s, Area: 133375.0m², Vol: 48708.0m³

Step 10200/29999, Sim Time: 4884.782s (+5.445e-01s), Max Depth: 0.7312352511m, Max Vel: 0.5356830163m/s, Area: 133400.0m², Vol: 48714.7m³

Step 10300/29999, Sim Time: 4939.231s (+5.445e-01s), Max Depth: 0.7312296755m, Max Vel: 0.5357269292m/s, Area: 133400.0m², Vol: 48721.3m³

Step 10400/29999, Sim Time: 4993.679s (+5.445e-01s), Max Depth: 0.7312241127m, Max Vel: 0.5357715610m/s, Area: 133425.0m², Vol: 48727.9m³

Step 10500/29999, Sim Time: 5048.127s (+5.445e-01s), Max Depth: 0.7312185727m, Max Vel: 0.5358169954m/s, Area: 133450.0m², Vol: 48734.5m³

Step 10600/29999, Sim Time: 5102.574s (+5.445e-01s), Max Depth: 0.7312130475m, Max Vel: 0.5358633133m/s, Area: 133425.0m², Vol: 48741.1m³

Step 10700/29999, Sim Time: 5157.021s (+5.445e-01s), Max Depth: 0.7312075168m, Max Vel: 0.5359105608m/s, Area: 133475.0m², Vol: 48747.9m³

Step 10800/29999, Sim Time: 5211.467s (+5.445e-01s), Max Depth: 0.7312019534m, Max Vel: 0.5359587471m/s, Area: 133500.0m², Vol: 48754.8m³

Step 10900/29999, Sim Time: 5265.912s (+5.444e-01s), Max Depth: 0.7311963233m, Max Vel: 0.5360078486m/s, Area: 133575.0m², Vol: 48762.0m³

Step 11000/29999, Sim Time: 5320.356s (+5.444e-01s), Max Depth: 0.7311905941m, Max Vel: 0.5360578540m/s, Area: 133525.0m², Vol: 48769.4m³

Step 11100/29999, Sim Time: 5374.800s (+5.444e-01s), Max Depth: 0.7311847727m, Max Vel: 0.5361098899m/s, Area: 133600.0m², Vol: 48776.9m³

Step 11200/29999, Sim Time: 5429.243s (+5.444e-01s), Max Depth: 0.7311791312m, Max Vel: 0.5361645955m/s, Area: 133550.0m², Vol: 48784.7m³

Step 11300/29999, Sim Time: 5483.686s (+5.444e-01s), Max Depth: 0.7311734639m, Max Vel: 0.5362209016m/s, Area: 133575.0m², Vol: 48792.6m³

Step 11400/29999, Sim Time: 5538.127s (+5.444e-01s), Max Depth: 0.7311677885m, Max Vel: 0.5362799658m/s, Area: 133575.0m², Vol: 48800.5m³

Step 11500/29999, Sim Time: 5592.568s (+5.444e-01s), Max Depth: 0.7311620354m, Max Vel: 0.5363416812m/s, Area: 133550.0m², Vol: 48808.4m³

Step 11600/29999, Sim Time: 5647.008s (+5.444e-01s), Max Depth: 0.7311561749m, Max Vel: 0.5364061438m/s, Area: 133550.0m², Vol: 48816.3m³

Step 11700/29999, Sim Time: 5701.447s (+5.444e-01s), Max Depth: 0.7311506023m, Max Vel: 0.5364483247m/s, Area: 133600.0m², Vol: 48824.1m³

Step 11800/29999, Sim Time: 5755.885s (+5.444e-01s), Max Depth: 0.7311423110m, Max Vel: 0.5365102882m/s, Area: 133650.0m², Vol: 48831.8m³

Step 11900/29999, Sim Time: 5810.322s (+5.444e-01s), Max Depth: 0.7311175116m, Max Vel: 0.5366047832m/s, Area: 133675.0m², Vol: 48839.6m³

Step 12000/29999, Sim Time: 5864.759s (+5.444e-01s), Max Depth: 0.7310553492m, Max Vel: 0.5367097089m/s, Area: 133650.0m², Vol: 48847.7m³

Step 12100/29999, Sim Time: 5919.197s (+5.444e-01s), Max Depth: 0.7309828372m, Max Vel: 0.5368386414m/s, Area: 133675.0m², Vol: 48855.8m³

Step 12200/29999, Sim Time: 5973.634s (+5.444e-01s), Max Depth: 0.7309107013m, Max Vel: 0.5369624588m/s, Area: 133700.0m², Vol: 48863.8m³

Step 12300/29999, Sim Time: 6028.072s (+5.444e-01s), Max Depth: 0.7308460232m, Max Vel: 0.5370800079m/s, Area: 133750.0m², Vol: 48871.9m³

Step 12400/29999, Sim Time: 6082.510s (+5.444e-01s), Max Depth: 0.7307917653m, Max Vel: 0.5371880882m/s, Area: 133725.0m², Vol: 48880.1m³

Step 12500/29999, Sim Time: 6136.947s (+5.444e-01s), Max Depth: 0.7307481583m, Max Vel: 0.5372872958m/s, Area: 133725.0m², Vol: 48888.5m³

Step 12600/29999, Sim Time: 6191.384s (+5.444e-01s), Max Depth: 0.7307146408m, Max Vel: 0.5373800062m/s, Area: 133775.0m², Vol: 48897.0m³

Step 12700/29999, Sim Time: 6245.820s (+5.444e-01s), Max Depth: 0.7306965513m, Max Vel: 0.5374685422m/s, Area: 133725.0m², Vol: 48905.6m³

Step 12800/29999, Sim Time: 6300.255s (+5.443e-01s), Max Depth: 0.7307025568m, Max Vel: 0.5375499825m/s, Area: 133775.0m², Vol: 48914.4m³

Step 12900/29999, Sim Time: 6354.688s (+5.443e-01s), Max Depth: 0.7307123779m, Max Vel: 0.5376261562m/s, Area: 133775.0m², Vol: 48923.4m³

Step 13000/29999, Sim Time: 6409.120s (+5.443e-01s), Max Depth: 0.7307128872m, Max Vel: 0.5377061541m/s, Area: 133800.0m², Vol: 48932.4m³

Step 13100/29999, Sim Time: 6463.550s (+5.443e-01s), Max Depth: 0.7307079019m, Max Vel: 0.5377982848m/s, Area: 133850.0m², Vol: 48941.7m³

Step 13200/29999, Sim Time: 6517.979s (+5.443e-01s), Max Depth: 0.7307042092m, Max Vel: 0.5378988770m/s, Area: 133900.0m², Vol: 48951.1m³

Step 13300/29999, Sim Time: 6572.406s (+5.443e-01s), Max Depth: 0.7307026357m, Max Vel: 0.5380021583m/s, Area: 133925.0m², Vol: 48961.2m³

Step 13400/29999, Sim Time: 6626.832s (+5.442e-01s), Max Depth: 0.7307010130m, Max Vel: 0.5381072691m/s, Area: 133975.0m², Vol: 48971.5m³

Step 13500/29999, Sim Time: 6681.256s (+5.442e-01s), Max Depth: 0.7306983653m, Max Vel: 0.5382163957m/s, Area: 133975.0m², Vol: 48982.2m³

Step 13600/29999, Sim Time: 6735.678s (+5.442e-01s), Max Depth: 0.7306953560m, Max Vel: 0.5383316297m/s, Area: 134025.0m², Vol: 48993.2m³

Step 13700/29999, Sim Time: 6790.098s (+5.442e-01s), Max Depth: 0.7306934091m, Max Vel: 0.5384580112m/s, Area: 134050.0m², Vol: 49004.5m³

Step 13800/29999, Sim Time: 6844.516s (+5.442e-01s), Max Depth: 0.7306911115m, Max Vel: 0.5385863187m/s, Area: 134025.0m², Vol: 49016.1m³

Step 13900/29999, Sim Time: 6898.932s (+5.441e-01s), Max Depth: 0.7306879600m, Max Vel: 0.5387300833m/s, Area: 134025.0m², Vol: 49027.8m³

Step 14000/29999, Sim Time: 6953.345s (+5.441e-01s), Max Depth: 0.7306855153m, Max Vel: 0.5388782910m/s, Area: 134050.0m², Vol: 49039.3m³

Step 14100/29999, Sim Time: 7007.756s (+5.441e-01s), Max Depth: 0.7306818747m, Max Vel: 0.5390325919m/s, Area: 134075.0m², Vol: 49051.0m³

Step 14200/29999, Sim Time: 7062.164s (+5.441e-01s), Max Depth: 0.7306773693m, Max Vel: 0.5391903241m/s, Area: 134100.0m², Vol: 49062.9m³

Step 14300/29999, Sim Time: 7116.570s (+5.440e-01s), Max Depth: 0.7306724794m, Max Vel: 0.5393640418m/s, Area: 134125.0m², Vol: 49074.9m³

Step 14400/29999, Sim Time: 7170.973s (+5.440e-01s), Max Depth: 0.7307082654m, Max Vel: 0.5395425319m/s, Area: 134125.0m², Vol: 49087.0m³

Step 14500/29999, Sim Time: 7225.370s (+5.440e-01s), Max Depth: 0.7307773827m, Max Vel: 0.5397139459m/s, Area: 134125.0m², Vol: 49099.2m³

Step 14600/29999, Sim Time: 7279.763s (+5.439e-01s), Max Depth: 0.7308470713m, Max Vel: 0.5398902451m/s, Area: 134125.0m², Vol: 49111.2m³

Step 14700/29999, Sim Time: 7334.150s (+5.438e-01s), Max Depth: 0.7309168752m, Max Vel: 0.5400633438m/s, Area: 134125.0m², Vol: 49123.2m³

Step 14800/29999, Sim Time: 7388.533s (+5.438e-01s), Max Depth: 0.7309872032m, Max Vel: 0.5402364876m/s, Area: 134100.0m², Vol: 49135.0m³

Step 14900/29999, Sim Time: 7442.910s (+5.437e-01s), Max Depth: 0.7310578617m, Max Vel: 0.5404094956m/s, Area: 134125.0m², Vol: 49146.7m³

Step 15000/29999, Sim Time: 7497.282s (+5.437e-01s), Max Depth: 0.7311287704m, Max Vel: 0.5405832098m/s, Area: 134125.0m², Vol: 49158.2m³

Step 15100/29999, Sim Time: 7551.649s (+5.436e-01s), Max Depth: 0.7311997895m, Max Vel: 0.5407574887m/s, Area: 134150.0m², Vol: 49169.3m³

Step 15200/29999, Sim Time: 7606.011s (+5.436e-01s), Max Depth: 0.7312708472m, Max Vel: 0.5409318740m/s, Area: 134175.0m², Vol: 49180.5m³

Step 15300/29999, Sim Time: 7660.367s (+5.435e-01s), Max Depth: 0.7313498454m, Max Vel: 0.5412026605m/s, Area: 134250.0m², Vol: 49191.8m³

Step 15400/29999, Sim Time: 7714.716s (+5.435e-01s), Max Depth: 0.7314282478m, Max Vel: 0.5414016553m/s, Area: 134275.0m², Vol: 49203.3m³

Step 15500/29999, Sim Time: 7769.060s (+5.434e-01s), Max Depth: 0.7315134368m, Max Vel: 0.5416254029m/s, Area: 134300.0m², Vol: 49214.6m³

Step 15600/29999, Sim Time: 7823.397s (+5.433e-01s), Max Depth: 0.7315985864m, Max Vel: 0.5418375283m/s, Area: 134300.0m², Vol: 49226.0m³

Step 15700/29999, Sim Time: 7877.728s (+5.433e-01s), Max Depth: 0.7316845220m, Max Vel: 0.5420444199m/s, Area: 134350.0m², Vol: 49237.2m³

Step 15800/29999, Sim Time: 7932.052s (+5.432e-01s), Max Depth: 0.7317823265m, Max Vel: 0.5422600365m/s, Area: 134375.0m², Vol: 49248.2m³

Step 15900/29999, Sim Time: 7986.370s (+5.431e-01s), Max Depth: 0.7318718046m, Max Vel: 0.5424711328m/s, Area: 134375.0m², Vol: 49259.0m³

Step 16000/29999, Sim Time: 8040.682s (+5.431e-01s), Max Depth: 0.7319632973m, Max Vel: 0.5426854358m/s, Area: 134425.0m², Vol: 49269.8m³

Step 16100/29999, Sim Time: 8094.987s (+5.430e-01s), Max Depth: 0.7320537217m, Max Vel: 0.5429045213m/s, Area: 134475.0m², Vol: 49280.3m³

Step 16200/29999, Sim Time: 8149.285s (+5.430e-01s), Max Depth: 0.7321452769m, Max Vel: 0.5431207067m/s, Area: 134500.0m², Vol: 49290.8m³

Step 16300/29999, Sim Time: 8203.577s (+5.429e-01s), Max Depth: 0.7322358394m, Max Vel: 0.5433449776m/s, Area: 134525.0m², Vol: 49301.2m³

Step 16400/29999, Sim Time: 8257.863s (+5.428e-01s), Max Depth: 0.7323274966m, Max Vel: 0.5435627587m/s, Area: 134550.0m², Vol: 49311.6m³

Step 16500/29999, Sim Time: 8312.142s (+5.428e-01s), Max Depth: 0.7324187499m, Max Vel: 0.5437862135m/s, Area: 134525.0m², Vol: 49321.7m³

Step 16600/29999, Sim Time: 8366.415s (+5.427e-01s), Max Depth: 0.7325091996m, Max Vel: 0.5440100488m/s, Area: 134525.0m², Vol: 49331.2m³

Step 16700/29999, Sim Time: 8420.680s (+5.426e-01s), Max Depth: 0.7326023460m, Max Vel: 0.5442380994m/s, Area: 134500.0m², Vol: 49340.3m³

Step 16800/29999, Sim Time: 8474.940s (+5.426e-01s), Max Depth: 0.7326917181m, Max Vel: 0.5444748540m/s, Area: 134500.0m², Vol: 49349.0m³

Step 16900/29999, Sim Time: 8529.192s (+5.425e-01s), Max Depth: 0.7327785477m, Max Vel: 0.5446927265m/s, Area: 134550.0m², Vol: 49357.0m³

Step 17000/29999, Sim Time: 8583.438s (+5.424e-01s), Max Depth: 0.7328629117m, Max Vel: 0.5449084148m/s, Area: 134550.0m², Vol: 49364.6m³

Step 17100/29999, Sim Time: 8637.679s (+5.424e-01s), Max Depth: 0.7329443240m, Max Vel: 0.5451161474m/s, Area: 134500.0m², Vol: 49371.5m³

Step 17200/29999, Sim Time: 8691.913s (+5.423e-01s), Max Depth: 0.7330235288m, Max Vel: 0.5453153109m/s, Area: 134550.0m², Vol: 49377.9m³

Step 17300/29999, Sim Time: 8746.142s (+5.423e-01s), Max Depth: 0.7331087883m, Max Vel: 0.5455132933m/s, Area: 134575.0m², Vol: 49384.0m³

Step 17400/29999, Sim Time: 8800.364s (+5.422e-01s), Max Depth: 0.7331913393m, Max Vel: 0.5457122099m/s, Area: 134550.0m², Vol: 49389.6m³

Step 17500/29999, Sim Time: 8854.581s (+5.421e-01s), Max Depth: 0.7332704254m, Max Vel: 0.5459029663m/s, Area: 134600.0m², Vol: 49394.5m³

Step 17600/29999, Sim Time: 8908.792s (+5.421e-01s), Max Depth: 0.7333485426m, Max Vel: 0.5460938754m/s, Area: 134600.0m², Vol: 49398.7m³

Step 17700/29999, Sim Time: 8962.998s (+5.420e-01s), Max Depth: 0.7334236138m, Max Vel: 0.5462735645m/s, Area: 134575.0m², Vol: 49402.2m³

Step 17800/29999, Sim Time: 9017.198s (+5.420e-01s), Max Depth: 0.7334959632m, Max Vel: 0.5464601120m/s, Area: 134575.0m², Vol: 49405.3m³

Step 17900/29999, Sim Time: 9071.393s (+5.419e-01s), Max Depth: 0.7335654640m, Max Vel: 0.5466302905m/s, Area: 134625.0m², Vol: 49407.8m³

Step 18000/29999, Sim Time: 9125.583s (+5.419e-01s), Max Depth: 0.7336342648m, Max Vel: 0.5468033353m/s, Area: 134600.0m², Vol: 49410.1m³

Step 18100/29999, Sim Time: 9179.769s (+5.418e-01s), Max Depth: 0.7337002057m, Max Vel: 0.5469746931m/s, Area: 134650.0m², Vol: 49411.9m³

Step 18200/29999, Sim Time: 9233.949s (+5.418e-01s), Max Depth: 0.7337632158m, Max Vel: 0.5471294176m/s, Area: 134675.0m², Vol: 49413.6m³

Step 18300/29999, Sim Time: 9288.125s (+5.417e-01s), Max Depth: 0.7338227391m, Max Vel: 0.5472845205m/s, Area: 134700.0m², Vol: 49415.2m³

Step 18400/29999, Sim Time: 9342.297s (+5.417e-01s), Max Depth: 0.7338788881m, Max Vel: 0.5474200806m/s, Area: 134675.0m², Vol: 49416.4m³

Step 18500/29999, Sim Time: 9396.465s (+5.417e-01s), Max Depth: 0.7339317827m, Max Vel: 0.5475541837m/s, Area: 134675.0m², Vol: 49417.2m³

Step 18600/29999, Sim Time: 9450.629s (+5.416e-01s), Max Depth: 0.7339817595m, Max Vel: 0.5476760289m/s, Area: 134650.0m², Vol: 49417.5m³

Step 18700/29999, Sim Time: 9504.790s (+5.416e-01s), Max Depth: 0.7340290111m, Max Vel: 0.5477864458m/s, Area: 134600.0m², Vol: 49417.1m³

Step 18800/29999, Sim Time: 9558.947s (+5.416e-01s), Max Depth: 0.7340747293m, Max Vel: 0.5479102039m/s, Area: 134450.0m², Vol: 49415.5m³

Step 18900/29999, Sim Time: 9613.101s (+5.415e-01s), Max Depth: 0.7341172130m, Max Vel: 0.5480032895m/s, Area: 134400.0m², Vol: 49412.9m³

Step 19000/29999, Sim Time: 9667.252s (+5.415e-01s), Max Depth: 0.7341568736m, Max Vel: 0.5481063939m/s, Area: 134375.0m², Vol: 49409.6m³

Step 19100/29999, Sim Time: 9721.401s (+5.415e-01s), Max Depth: 0.7341938153m, Max Vel: 0.5481903004m/s, Area: 134325.0m², Vol: 49405.2m³

Step 19200/29999, Sim Time: 9775.547s (+5.414e-01s), Max Depth: 0.7342279280m, Max Vel: 0.5482665013m/s, Area: 134400.0m², Vol: 49400.1m³

Step 19300/29999, Sim Time: 9829.691s (+5.414e-01s), Max Depth: 0.7342586491m, Max Vel: 0.5483481609m/s, Area: 134450.0m², Vol: 49394.5m³

Step 19400/29999, Sim Time: 9883.833s (+5.414e-01s), Max Depth: 0.7342874737m, Max Vel: 0.5484174686m/s, Area: 134425.0m², Vol: 49388.5m³

Step 19500/29999, Sim Time: 9937.972s (+5.414e-01s), Max Depth: 0.7343121978m, Max Vel: 0.5484809131m/s, Area: 134475.0m², Vol: 49382.2m³

Step 19600/29999, Sim Time: 9992.110s (+5.414e-01s), Max Depth: 0.7343366234m, Max Vel: 0.5485311825m/s, Area: 134500.0m², Vol: 49375.2m³

Step 19700/29999, Sim Time: 10046.247s (+5.414e-01s), Max Depth: 0.7343570449m, Max Vel: 0.5485873931m/s, Area: 134500.0m², Vol: 49367.5m³

Step 19800/29999, Sim Time: 10100.382s (+5.413e-01s), Max Depth: 0.7343735503m, Max Vel: 0.5486273324m/s, Area: 134500.0m², Vol: 49359.5m³

Step 19900/29999, Sim Time: 10154.516s (+5.413e-01s), Max Depth: 0.7343878849m, Max Vel: 0.5486566103m/s, Area: 134375.0m², Vol: 49350.1m³

Step 20000/29999, Sim Time: 10208.649s (+5.413e-01s), Max Depth: 0.7343983663m, Max Vel: 0.5486900966m/s, Area: 134300.0m², Vol: 49339.8m³

Step 20100/29999, Sim Time: 10262.781s (+5.413e-01s), Max Depth: 0.7344060580m, Max Vel: 0.5487102135m/s, Area: 134300.0m², Vol: 49328.7m³

Step 20200/29999, Sim Time: 10316.913s (+5.413e-01s), Max Depth: 0.7344101477m, Max Vel: 0.5487195363m/s, Area: 134225.0m², Vol: 49317.1m³

Step 20300/29999, Sim Time: 10371.045s (+5.413e-01s), Max Depth: 0.7344118397m, Max Vel: 0.5487226388m/s, Area: 134225.0m², Vol: 49304.8m³

Step 20400/29999, Sim Time: 10425.176s (+5.413e-01s), Max Depth: 0.7344105506m, Max Vel: 0.5487187756m/s, Area: 134225.0m², Vol: 49291.9m³

Step 20500/29999, Sim Time: 10479.308s (+5.413e-01s), Max Depth: 0.7344058871m, Max Vel: 0.5487082435m/s, Area: 134200.0m², Vol: 49278.8m³

Step 20600/29999, Sim Time: 10533.441s (+5.413e-01s), Max Depth: 0.7343980165m, Max Vel: 0.5486871256m/s, Area: 134200.0m², Vol: 49265.5m³

Step 20700/29999, Sim Time: 10587.574s (+5.413e-01s), Max Depth: 0.7343875262m, Max Vel: 0.5486644609m/s, Area: 134175.0m², Vol: 49251.6m³

Step 20800/29999, Sim Time: 10641.707s (+5.413e-01s), Max Depth: 0.7343733861m, Max Vel: 0.5486263570m/s, Area: 134125.0m², Vol: 49237.2m³

Step 20900/29999, Sim Time: 10695.842s (+5.414e-01s), Max Depth: 0.7343556096m, Max Vel: 0.5486068755m/s, Area: 134075.0m², Vol: 49222.5m³

Step 21000/29999, Sim Time: 10749.979s (+5.414e-01s), Max Depth: 0.7343373255m, Max Vel: 0.5485415883m/s, Area: 134100.0m², Vol: 49207.6m³

Step 21100/29999, Sim Time: 10804.116s (+5.414e-01s), Max Depth: 0.7343154495m, Max Vel: 0.5484913175m/s, Area: 134050.0m², Vol: 49192.9m³

Step 21200/29999, Sim Time: 10858.255s (+5.414e-01s), Max Depth: 0.7342916824m, Max Vel: 0.5484396936m/s, Area: 133975.0m², Vol: 49178.6m³

Step 21300/29999, Sim Time: 10912.397s (+5.414e-01s), Max Depth: 0.7342650366m, Max Vel: 0.5483673511m/s, Area: 133950.0m², Vol: 49164.8m³

Step 21400/29999, Sim Time: 10966.540s (+5.414e-01s), Max Depth: 0.7342363520m, Max Vel: 0.5483083661m/s, Area: 133925.0m², Vol: 49151.5m³

Step 21500/29999, Sim Time: 11020.685s (+5.415e-01s), Max Depth: 0.7342055739m, Max Vel: 0.5482258862m/s, Area: 133975.0m², Vol: 49139.1m³

Step 21600/29999, Sim Time: 11074.832s (+5.415e-01s), Max Depth: 0.7341727295m, Max Vel: 0.5481448818m/s, Area: 133975.0m², Vol: 49127.1m³

Step 21700/29999, Sim Time: 11128.982s (+5.415e-01s), Max Depth: 0.7341381353m, Max Vel: 0.5480511952m/s, Area: 133875.0m², Vol: 49115.4m³

Step 21800/29999, Sim Time: 11183.135s (+5.415e-01s), Max Depth: 0.7341021298m, Max Vel: 0.5479637091m/s, Area: 133825.0m², Vol: 49104.1m³

Step 21900/29999, Sim Time: 11237.290s (+5.416e-01s), Max Depth: 0.7340647421m, Max Vel: 0.5478664387m/s, Area: 133850.0m², Vol: 49092.9m³

Step 22000/29999, Sim Time: 11291.448s (+5.416e-01s), Max Depth: 0.7340268557m, Max Vel: 0.5477681054m/s, Area: 133800.0m², Vol: 49082.2m³

Step 22100/29999, Sim Time: 11345.609s (+5.416e-01s), Max Depth: 0.7339884979m, Max Vel: 0.5476714918m/s, Area: 133800.0m², Vol: 49072.2m³

Step 22200/29999, Sim Time: 11399.772s (+5.417e-01s), Max Depth: 0.7339499183m, Max Vel: 0.5475749392m/s, Area: 133850.0m², Vol: 49062.8m³

Step 22300/29999, Sim Time: 11453.939s (+5.417e-01s), Max Depth: 0.7339113272m, Max Vel: 0.5474760267m/s, Area: 133850.0m², Vol: 49054.1m³

Step 22400/29999, Sim Time: 11508.108s (+5.417e-01s), Max Depth: 0.7338726464m, Max Vel: 0.5473774736m/s, Area: 133900.0m², Vol: 49046.3m³

Step 22500/29999, Sim Time: 11562.280s (+5.417e-01s), Max Depth: 0.7338339478m, Max Vel: 0.5472826287m/s, Area: 133875.0m², Vol: 49039.4m³

Step 22600/29999, Sim Time: 11616.455s (+5.418e-01s), Max Depth: 0.7337924834m, Max Vel: 0.5471803087m/s, Area: 133875.0m², Vol: 49033.4m³

Step 22700/29999, Sim Time: 11670.633s (+5.418e-01s), Max Depth: 0.7337495035m, Max Vel: 0.5470634514m/s, Area: 133875.0m², Vol: 49028.1m³

Step 22800/29999, Sim Time: 11724.815s (+5.418e-01s), Max Depth: 0.7337062407m, Max Vel: 0.5469565181m/s, Area: 133900.0m², Vol: 49023.3m³

Step 22900/29999, Sim Time: 11778.999s (+5.419e-01s), Max Depth: 0.7336630011m, Max Vel: 0.5468495693m/s, Area: 133850.0m², Vol: 49019.0m³

Step 23000/29999, Sim Time: 11833.187s (+5.419e-01s), Max Depth: 0.7336200011m, Max Vel: 0.5467397264m/s, Area: 133850.0m², Vol: 49015.2m³

Step 23100/29999, Sim Time: 11887.377s (+5.419e-01s), Max Depth: 0.7335769469m, Max Vel: 0.5466353590m/s, Area: 133850.0m², Vol: 49011.7m³

Step 23200/29999, Sim Time: 11941.571s (+5.420e-01s), Max Depth: 0.7335343041m, Max Vel: 0.5465254602m/s, Area: 133825.0m², Vol: 49008.5m³

Step 23300/29999, Sim Time: 11995.768s (+5.420e-01s), Max Depth: 0.7334920616m, Max Vel: 0.5464210755m/s, Area: 133800.0m², Vol: 49005.7m³

Step 23400/29999, Sim Time: 12049.968s (+5.420e-01s), Max Depth: 0.7334503731m, Max Vel: 0.5463170958m/s, Area: 133825.0m², Vol: 49003.0m³

Step 23500/29999, Sim Time: 12104.171s (+5.420e-01s), Max Depth: 0.7334075936m, Max Vel: 0.5462136494m/s, Area: 133850.0m², Vol: 49000.5m³

Step 23600/29999, Sim Time: 12158.377s (+5.421e-01s), Max Depth: 0.7333644933m, Max Vel: 0.5460849940m/s, Area: 133900.0m², Vol: 48998.4m³

Step 23700/29999, Sim Time: 12212.587s (+5.421e-01s), Max Depth: 0.7333230384m, Max Vel: 0.5459791698m/s, Area: 133875.0m², Vol: 48996.3m³

Step 23800/29999, Sim Time: 12266.799s (+5.421e-01s), Max Depth: 0.7332840689m, Max Vel: 0.5458757542m/s, Area: 133825.0m², Vol: 48994.3m³

Step 23900/29999, Sim Time: 12321.015s (+5.422e-01s), Max Depth: 0.7332469031m, Max Vel: 0.5457746116m/s, Area: 133875.0m², Vol: 48992.2m³

Step 24000/29999, Sim Time: 12375.233s (+5.422e-01s), Max Depth: 0.7332093651m, Max Vel: 0.5456805492m/s, Area: 133900.0m², Vol: 48990.2m³

Step 24100/29999, Sim Time: 12429.454s (+5.422e-01s), Max Depth: 0.7331739285m, Max Vel: 0.5455842847m/s, Area: 133875.0m², Vol: 48988.1m³

Step 24200/29999, Sim Time: 12483.677s (+5.422e-01s), Max Depth: 0.7331402870m, Max Vel: 0.5454973388m/s, Area: 133900.0m², Vol: 48986.0m³

Step 24300/29999, Sim Time: 12537.903s (+5.423e-01s), Max Depth: 0.7331085297m, Max Vel: 0.5454107290m/s, Area: 133850.0m², Vol: 48983.8m³

Step 24400/29999, Sim Time: 12592.132s (+5.423e-01s), Max Depth: 0.7330790966m, Max Vel: 0.5453372998m/s, Area: 133875.0m², Vol: 48981.3m³

Step 24500/29999, Sim Time: 12646.362s (+5.423e-01s), Max Depth: 0.7330517051m, Max Vel: 0.5452706267m/s, Area: 133850.0m², Vol: 48978.4m³

Step 24600/29999, Sim Time: 12700.594s (+5.423e-01s), Max Depth: 0.7330266548m, Max Vel: 0.5452055327m/s, Area: 133875.0m², Vol: 48975.3m³

Step 24700/29999, Sim Time: 12754.828s (+5.423e-01s), Max Depth: 0.7330039021m, Max Vel: 0.5451485157m/s, Area: 133875.0m², Vol: 48972.6m³

Step 24800/29999, Sim Time: 12809.064s (+5.424e-01s), Max Depth: 0.7329833962m, Max Vel: 0.5450950286m/s, Area: 133875.0m², Vol: 48970.0m³

Step 24900/29999, Sim Time: 12863.301s (+5.424e-01s), Max Depth: 0.7329651432m, Max Vel: 0.5450514344m/s, Area: 133850.0m², Vol: 48967.6m³

Step 25000/29999, Sim Time: 12917.539s (+5.424e-01s), Max Depth: 0.7329489344m, Max Vel: 0.5450139545m/s, Area: 133825.0m², Vol: 48965.0m³

Step 25100/29999, Sim Time: 12971.778s (+5.424e-01s), Max Depth: 0.7329348324m, Max Vel: 0.5449762803m/s, Area: 133850.0m², Vol: 48962.3m³

Step 25200/29999, Sim Time: 13026.019s (+5.424e-01s), Max Depth: 0.7329224029m, Max Vel: 0.5449454960m/s, Area: 133850.0m², Vol: 48959.5m³

Step 25300/29999, Sim Time: 13080.260s (+5.424e-01s), Max Depth: 0.7329116971m, Max Vel: 0.5449184613m/s, Area: 133825.0m², Vol: 48956.5m³

Step 25400/29999, Sim Time: 13134.502s (+5.424e-01s), Max Depth: 0.7329026176m, Max Vel: 0.5448963775m/s, Area: 133775.0m², Vol: 48953.1m³

Step 25500/29999, Sim Time: 13188.744s (+5.424e-01s), Max Depth: 0.7328949859m, Max Vel: 0.5448779432m/s, Area: 133650.0m², Vol: 48949.2m³

Step 25600/29999, Sim Time: 13242.987s (+5.424e-01s), Max Depth: 0.7328888168m, Max Vel: 0.5448621867m/s, Area: 133650.0m², Vol: 48944.7m³

Step 25700/29999, Sim Time: 13297.230s (+5.424e-01s), Max Depth: 0.7328837870m, Max Vel: 0.5448513957m/s, Area: 133575.0m², Vol: 48939.6m³

Step 25800/29999, Sim Time: 13351.474s (+5.424e-01s), Max Depth: 0.7328799724m, Max Vel: 0.5448425982m/s, Area: 133550.0m², Vol: 48934.1m³

Step 25900/29999, Sim Time: 13405.718s (+5.424e-01s), Max Depth: 0.7328770270m, Max Vel: 0.5448366202m/s, Area: 133575.0m², Vol: 48929.0m³

Step 26000/29999, Sim Time: 13459.962s (+5.424e-01s), Max Depth: 0.7328751731m, Max Vel: 0.5448323528m/s, Area: 133575.0m², Vol: 48924.1m³

Step 26100/29999, Sim Time: 13514.206s (+5.424e-01s), Max Depth: 0.7328742210m, Max Vel: 0.5448316893m/s, Area: 133525.0m², Vol: 48919.5m³

Step 26200/29999, Sim Time: 13568.450s (+5.424e-01s), Max Depth: 0.7328739816m, Max Vel: 0.5448304461m/s, Area: 133475.0m², Vol: 48915.0m³

Step 26300/29999, Sim Time: 13622.694s (+5.424e-01s), Max Depth: 0.7328745351m, Max Vel: 0.5448325713m/s, Area: 133475.0m², Vol: 48910.4m³

Step 26400/29999, Sim Time: 13676.938s (+5.424e-01s), Max Depth: 0.7328756965m, Max Vel: 0.5448336770m/s, Area: 133450.0m², Vol: 48905.4m³

Step 26500/29999, Sim Time: 13731.182s (+5.424e-01s), Max Depth: 0.7328775376m, Max Vel: 0.5448401161m/s, Area: 133450.0m², Vol: 48900.1m³

Step 26600/29999, Sim Time: 13785.426s (+5.424e-01s), Max Depth: 0.7328798601m, Max Vel: 0.5448444672m/s, Area: 133450.0m², Vol: 48894.9m³

Step 26700/29999, Sim Time: 13839.670s (+5.424e-01s), Max Depth: 0.7328826877m, Max Vel: 0.5448515872m/s, Area: 133450.0m², Vol: 48889.7m³

Step 26800/29999, Sim Time: 13893.913s (+5.424e-01s), Max Depth: 0.7328859143m, Max Vel: 0.5448580053m/s, Area: 133475.0m², Vol: 48884.4m³

Step 26900/29999, Sim Time: 13948.156s (+5.424e-01s), Max Depth: 0.7328894146m, Max Vel: 0.5448679918m/s, Area: 133475.0m², Vol: 48879.1m³

Step 27000/29999, Sim Time: 14002.399s (+5.424e-01s), Max Depth: 0.7328932128m, Max Vel: 0.5448781926m/s, Area: 133450.0m², Vol: 48874.2m³

Step 27100/29999, Sim Time: 14056.642s (+5.424e-01s), Max Depth: 0.7328970959m, Max Vel: 0.5448870157m/s, Area: 133450.0m², Vol: 48869.5m³

Step 27200/29999, Sim Time: 14110.884s (+5.424e-01s), Max Depth: 0.7329011655m, Max Vel: 0.5448966970m/s, Area: 133500.0m², Vol: 48865.2m³

Step 27300/29999, Sim Time: 14165.126s (+5.424e-01s), Max Depth: 0.7329052209m, Max Vel: 0.5449073034m/s, Area: 133450.0m², Vol: 48861.1m³

Step 27400/29999, Sim Time: 14219.368s (+5.424e-01s), Max Depth: 0.7329092102m, Max Vel: 0.5449166330m/s, Area: 133475.0m², Vol: 48857.0m³

Step 27500/29999, Sim Time: 14273.610s (+5.424e-01s), Max Depth: 0.7329130956m, Max Vel: 0.5449268475m/s, Area: 133450.0m², Vol: 48853.1m³

Step 27600/29999, Sim Time: 14327.851s (+5.424e-01s), Max Depth: 0.7329168437m, Max Vel: 0.5449355999m/s, Area: 133475.0m², Vol: 48849.4m³

Step 27700/29999, Sim Time: 14382.092s (+5.424e-01s), Max Depth: 0.7329201950m, Max Vel: 0.5449451288m/s, Area: 133450.0m², Vol: 48845.7m³

Step 27800/29999, Sim Time: 14436.332s (+5.424e-01s), Max Depth: 0.7329233836m, Max Vel: 0.5449532506m/s, Area: 133475.0m², Vol: 48842.1m³

Step 27900/29999, Sim Time: 14490.573s (+5.424e-01s), Max Depth: 0.7329261611m, Max Vel: 0.5449613860m/s, Area: 133525.0m², Vol: 48838.6m³

Step 28000/29999, Sim Time: 14544.813s (+5.424e-01s), Max Depth: 0.7329285486m, Max Vel: 0.5449649947m/s, Area: 133500.0m², Vol: 48835.1m³

Step 28100/29999, Sim Time: 14599.053s (+5.424e-01s), Max Depth: 0.7329304573m, Max Vel: 0.5449690581m/s, Area: 133500.0m², Vol: 48831.9m³

Step 28200/29999, Sim Time: 14653.293s (+5.424e-01s), Max Depth: 0.7329317450m, Max Vel: 0.5449770567m/s, Area: 133500.0m², Vol: 48828.6m³

Step 28300/29999, Sim Time: 14707.533s (+5.424e-01s), Max Depth: 0.7329325304m, Max Vel: 0.5449778571m/s, Area: 133525.0m², Vol: 48825.3m³

Step 28400/29999, Sim Time: 14761.773s (+5.424e-01s), Max Depth: 0.7329326558m, Max Vel: 0.5449761016m/s, Area: 133550.0m², Vol: 48821.9m³

Step 28500/29999, Sim Time: 14816.013s (+5.424e-01s), Max Depth: 0.7329318389m, Max Vel: 0.5449760390m/s, Area: 133525.0m², Vol: 48818.7m³

Step 28600/29999, Sim Time: 14870.253s (+5.424e-01s), Max Depth: 0.7329304572m, Max Vel: 0.5449735069m/s, Area: 133500.0m², Vol: 48815.5m³

Step 28700/29999, Sim Time: 14924.493s (+5.424e-01s), Max Depth: 0.7329281335m, Max Vel: 0.5449716158m/s, Area: 133500.0m², Vol: 48812.2m³

Step 28800/29999, Sim Time: 14978.733s (+5.424e-01s), Max Depth: 0.7329249672m, Max Vel: 0.5449604561m/s, Area: 133475.0m², Vol: 48808.7m³

Step 28900/29999, Sim Time: 15032.974s (+5.424e-01s), Max Depth: 0.7329209849m, Max Vel: 0.5449510713m/s, Area: 133450.0m², Vol: 48805.4m³

Step 29000/29999, Sim Time: 15087.215s (+5.424e-01s), Max Depth: 0.7329160469m, Max Vel: 0.5449431581m/s, Area: 133450.0m², Vol: 48801.9m³

Step 29100/29999, Sim Time: 15141.456s (+5.424e-01s), Max Depth: 0.7329100634m, Max Vel: 0.5449247674m/s, Area: 133500.0m², Vol: 48798.2m³

Step 29200/29999, Sim Time: 15195.698s (+5.424e-01s), Max Depth: 0.7329030960m, Max Vel: 0.5449128324m/s, Area: 133500.0m², Vol: 48794.1m³

Step 29300/29999, Sim Time: 15249.940s (+5.424e-01s), Max Depth: 0.7328951010m, Max Vel: 0.5448931371m/s, Area: 133500.0m², Vol: 48789.8m³

Step 29400/29999, Sim Time: 15304.183s (+5.424e-01s), Max Depth: 0.7328859880m, Max Vel: 0.5448706697m/s, Area: 133475.0m², Vol: 48785.0m³

Step 29500/29999, Sim Time: 15358.426s (+5.424e-01s), Max Depth: 0.7328757548m, Max Vel: 0.5448471870m/s, Area: 133475.0m², Vol: 48779.8m³

Step 29600/29999, Sim Time: 15412.670s (+5.424e-01s), Max Depth: 0.7328644403m, Max Vel: 0.5448203564m/s, Area: 133500.0m², Vol: 48774.3m³

Step 29700/29999, Sim Time: 15466.915s (+5.425e-01s), Max Depth: 0.7328522752m, Max Vel: 0.5447910926m/s, Area: 133450.0m², Vol: 48768.3m³

Step 29800/29999, Sim Time: 15521.161s (+5.425e-01s), Max Depth: 0.7328392060m, Max Vel: 0.5447633498m/s, Area: 133400.0m², Vol: 48762.0m³

Step 29900/29999, Sim Time: 15575.408s (+5.425e-01s), Max Depth: 0.7328177012m, Max Vel: 0.5447223824m/s, Area: 133350.0m², Vol: 48756.5m³

Step 29999/29999, Sim Time: 15629.114s (+5.425e-01s), Max Depth: 0.7327958211m, Max Vel: 0.5446790114m/s, Area: 133375.0m², Vol: 48752.2m³

Simulation finished 30000 steps in 240.27 seconds (wall clock).

Final Maximum Flood Extent Area: 138000.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 2 max depth: 0.733 m, steady state max depth: 0.734 m, rate of increase: -0.000000 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain10.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain10\_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 11.25 --output-freq 100 -o result\_rain11\_25.mp4 --save --source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 167.76 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26s. Stored steady\_state\_h.

--- Starting Phase 2: Rainfall & WSE Monitoring (30000 steps) ---

Added rainfall: rate=3.125e-06 m/s, duration=30000 steps

Added rainfall for Phase 2: 11.25 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337687172m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39721.1m³

Step 100/29999, Sim Time: 55.080s (+5.453e-01s), Max Depth: 0.7339688031m, Max Vel: 0.5258200251m/s, Area: 130825.0m², Vol: 39883.5m³

Step 200/29999, Sim Time: 109.608s (+5.452e-01s), Max Depth: 0.7341641304m, Max Vel: 0.5259973317m/s, Area: 130825.0m², Vol: 40044.8m³

Step 300/29999, Sim Time: 164.125s (+5.451e-01s), Max Depth: 0.7343681913m, Max Vel: 0.5262471716m/s, Area: 130875.0m², Vol: 40205.4m³

Step 400/29999, Sim Time: 218.633s (+5.450e-01s), Max Depth: 0.7345648045m, Max Vel: 0.5264008669m/s, Area: 130925.0m², Vol: 40365.5m³

Step 500/29999, Sim Time: 273.132s (+5.450e-01s), Max Depth: 0.7347523710m, Max Vel: 0.5265500849m/s, Area: 131000.0m², Vol: 40525.2m³

Step 600/29999, Sim Time: 327.623s (+5.449e-01s), Max Depth: 0.7349251218m, Max Vel: 0.5266840476m/s, Area: 131050.0m², Vol: 40684.7m³

Step 700/29999, Sim Time: 382.107s (+5.448e-01s), Max Depth: 0.7350800928m, Max Vel: 0.5268180106m/s, Area: 131075.0m², Vol: 40844.0m³

Step 800/29999, Sim Time: 436.583s (+5.447e-01s), Max Depth: 0.7352151472m, Max Vel: 0.5269554570m/s, Area: 131250.0m², Vol: 41003.3m³

Step 900/29999, Sim Time: 491.054s (+5.447e-01s), Max Depth: 0.7353287934m, Max Vel: 0.5271241762m/s, Area: 131300.0m², Vol: 41162.9m³

Step 1000/29999, Sim Time: 545.518s (+5.446e-01s), Max Depth: 0.7354228136m, Max Vel: 0.5272850581m/s, Area: 131300.0m², Vol: 41322.3m³

Step 1100/29999, Sim Time: 599.978s (+5.446e-01s), Max Depth: 0.7354914667m, Max Vel: 0.5274509402m/s, Area: 131350.0m², Vol: 41481.1m³

Step 1200/29999, Sim Time: 654.432s (+5.445e-01s), Max Depth: 0.7355371847m, Max Vel: 0.5276191809m/s, Area: 131375.0m², Vol: 41639.6m³

Step 1300/29999, Sim Time: 708.883s (+5.445e-01s), Max Depth: 0.7355607172m, Max Vel: 0.5277871411m/s, Area: 131350.0m², Vol: 41797.7m³

Step 1400/29999, Sim Time: 763.330s (+5.445e-01s), Max Depth: 0.7355632142m, Max Vel: 0.5279581882m/s, Area: 131475.0m², Vol: 41955.5m³

Step 1500/29999, Sim Time: 817.775s (+5.444e-01s), Max Depth: 0.7355454279m, Max Vel: 0.5281306444m/s, Area: 131550.0m², Vol: 42113.3m³

Step 1600/29999, Sim Time: 872.218s (+5.444e-01s), Max Depth: 0.7355087542m, Max Vel: 0.5283043459m/s, Area: 131575.0m², Vol: 42271.1m³

Step 1700/29999, Sim Time: 926.659s (+5.444e-01s), Max Depth: 0.7354549537m, Max Vel: 0.5284868427m/s, Area: 131650.0m², Vol: 42428.5m³

Step 1800/29999, Sim Time: 981.099s (+5.444e-01s), Max Depth: 0.7353865587m, Max Vel: 0.5286840507m/s, Area: 131650.0m², Vol: 42585.8m³

Step 1900/29999, Sim Time: 1035.537s (+5.444e-01s), Max Depth: 0.7353045735m, Max Vel: 0.5288846908m/s, Area: 131750.0m², Vol: 42742.6m³

Step 2000/29999, Sim Time: 1089.975s (+5.444e-01s), Max Depth: 0.7352094330m, Max Vel: 0.5290995284m/s, Area: 131800.0m², Vol: 42899.4m³

Step 2100/29999, Sim Time: 1144.412s (+5.444e-01s), Max Depth: 0.7351123132m, Max Vel: 0.5293123097m/s, Area: 131850.0m², Vol: 43055.9m³

Step 2200/29999, Sim Time: 1198.849s (+5.444e-01s), Max Depth: 0.7350000689m, Max Vel: 0.5295175461m/s, Area: 131850.0m², Vol: 43212.1m³

Step 2300/29999, Sim Time: 1253.286s (+5.444e-01s), Max Depth: 0.7348766873m, Max Vel: 0.5297242587m/s, Area: 131900.0m², Vol: 43367.9m³

Step 2400/29999, Sim Time: 1307.724s (+5.444e-01s), Max Depth: 0.7347419166m, Max Vel: 0.5299226908m/s, Area: 131950.0m², Vol: 43523.4m³

Step 2500/29999, Sim Time: 1362.163s (+5.444e-01s), Max Depth: 0.7345964355m, Max Vel: 0.5301177707m/s, Area: 131950.0m², Vol: 43678.7m³

Step 2600/29999, Sim Time: 1416.603s (+5.444e-01s), Max Depth: 0.7344424632m, Max Vel: 0.5303112783m/s, Area: 132025.0m², Vol: 43833.6m³

Step 2700/29999, Sim Time: 1471.044s (+5.444e-01s), Max Depth: 0.7342824963m, Max Vel: 0.5305008084m/s, Area: 132100.0m², Vol: 43988.5m³

Step 2800/29999, Sim Time: 1525.488s (+5.444e-01s), Max Depth: 0.7341181874m, Max Vel: 0.5306859640m/s, Area: 132125.0m², Vol: 44143.4m³

Step 2900/29999, Sim Time: 1579.933s (+5.445e-01s), Max Depth: 0.7339511389m, Max Vel: 0.5308656483m/s, Area: 132125.0m², Vol: 44298.2m³

Step 3000/29999, Sim Time: 1634.381s (+5.445e-01s), Max Depth: 0.7337831813m, Max Vel: 0.5310393753m/s, Area: 132125.0m², Vol: 44452.8m³

Step 3100/29999, Sim Time: 1688.831s (+5.445e-01s), Max Depth: 0.7336159345m, Max Vel: 0.5312074244m/s, Area: 132175.0m², Vol: 44607.1m³

Step 3200/29999, Sim Time: 1743.283s (+5.445e-01s), Max Depth: 0.7334507950m, Max Vel: 0.5313701263m/s, Area: 132200.0m², Vol: 44761.4m³

Step 3300/29999, Sim Time: 1797.738s (+5.446e-01s), Max Depth: 0.7332890469m, Max Vel: 0.5315294577m/s, Area: 132275.0m², Vol: 44915.7m³

Step 3400/29999, Sim Time: 1852.195s (+5.446e-01s), Max Depth: 0.7331319304m, Max Vel: 0.5316851514m/s, Area: 132350.0m², Vol: 45070.1m³

Step 3500/29999, Sim Time: 1906.654s (+5.446e-01s), Max Depth: 0.7329801926m, Max Vel: 0.5318373025m/s, Area: 132475.0m², Vol: 45224.5m³

Step 3600/29999, Sim Time: 1961.115s (+5.446e-01s), Max Depth: 0.7328345068m, Max Vel: 0.5319871603m/s, Area: 132500.0m², Vol: 45379.6m³

Step 3700/29999, Sim Time: 2015.578s (+5.446e-01s), Max Depth: 0.7326958703m, Max Vel: 0.5321447388m/s, Area: 132500.0m², Vol: 45535.0m³

Step 3800/29999, Sim Time: 2070.043s (+5.446e-01s), Max Depth: 0.7325653837m, Max Vel: 0.5323140806m/s, Area: 132500.0m², Vol: 45690.3m³

Step 3900/29999, Sim Time: 2124.508s (+5.447e-01s), Max Depth: 0.7324425976m, Max Vel: 0.5324719696m/s, Area: 132525.0m², Vol: 45845.7m³

Step 4000/29999, Sim Time: 2178.975s (+5.447e-01s), Max Depth: 0.7323265769m, Max Vel: 0.5326318744m/s, Area: 132575.0m², Vol: 46001.1m³

Step 4100/29999, Sim Time: 2233.442s (+5.447e-01s), Max Depth: 0.7322174478m, Max Vel: 0.5327881999m/s, Area: 132575.0m², Vol: 46156.9m³

Step 4200/29999, Sim Time: 2287.541s (+4.882e-01s), Max Depth: 0.7321155432m, Max Vel: 0.9354775117m/s, Area: 132625.0m², Vol: 46311.8m³

Step 4300/29999, Sim Time: 2309.764s (+1.380e-01s), Max Depth: 0.7320755259m, Max Vel: 9.9999999990m/s, Area: 132600.0m², Vol: 46377.2m³

Step 4400/29999, Sim Time: 2323.565s (+1.380e-01s), Max Depth: 0.7320511974m, Max Vel: 9.9999999990m/s, Area: 132650.0m², Vol: 46418.7m³

Step 4500/29999, Sim Time: 2337.366s (+1.380e-01s), Max Depth: 0.7320272165m, Max Vel: 9.9999999991m/s, Area: 132700.0m², Vol: 46461.9m³

Step 4600/29999, Sim Time: 2377.742s (+5.447e-01s), Max Depth: 0.7319594436m, Max Vel: 0.5332028710m/s, Area: 132750.0m², Vol: 46580.4m³

Step 4700/29999, Sim Time: 2432.210s (+5.447e-01s), Max Depth: 0.7318728480m, Max Vel: 0.5333608539m/s, Area: 132800.0m², Vol: 46734.4m³

Step 4800/29999, Sim Time: 2486.679s (+5.447e-01s), Max Depth: 0.7317923679m, Max Vel: 0.5335184849m/s, Area: 132750.0m², Vol: 46889.7m³

Step 4900/29999, Sim Time: 2541.147s (+5.447e-01s), Max Depth: 0.7317274569m, Max Vel: 0.5336739047m/s, Area: 132775.0m², Vol: 47045.3m³

Step 5000/29999, Sim Time: 2595.615s (+5.447e-01s), Max Depth: 0.7316807934m, Max Vel: 0.5338210304m/s, Area: 132775.0m², Vol: 47199.4m³

Step 5100/29999, Sim Time: 2650.084s (+5.447e-01s), Max Depth: 0.7315035653m, Max Vel: 0.5339375611m/s, Area: 132750.0m², Vol: 47198.2m³

Step 5200/29999, Sim Time: 2704.556s (+5.448e-01s), Max Depth: 0.7313733725m, Max Vel: 0.5338649426m/s, Area: 132700.0m², Vol: 47198.1m³

Step 5300/29999, Sim Time: 2756.101s (+4.074e-01s), Max Depth: 0.7312826986m, Max Vel: 1.6428547660m/s, Area: 132700.0m², Vol: 47199.0m³

Step 5400/29999, Sim Time: 2795.465s (+5.448e-01s), Max Depth: 0.7312411268m, Max Vel: 0.5336099929m/s, Area: 132700.0m², Vol: 47200.2m³

Step 5500/29999, Sim Time: 2849.951s (+5.449e-01s), Max Depth: 0.7312167298m, Max Vel: 0.5334933353m/s, Area: 132700.0m², Vol: 47202.6m³

Step 5600/29999, Sim Time: 2904.439s (+5.449e-01s), Max Depth: 0.7312238416m, Max Vel: 0.5333824131m/s, Area: 132675.0m², Vol: 47205.6m³

Step 5700/29999, Sim Time: 2958.928s (+5.449e-01s), Max Depth: 0.7312538280m, Max Vel: 0.5332862314m/s, Area: 132700.0m², Vol: 47209.2m³

Step 5800/29999, Sim Time: 3013.417s (+5.449e-01s), Max Depth: 0.7312978067m, Max Vel: 0.5332041455m/s, Area: 132750.0m², Vol: 47213.2m³

Step 5900/29999, Sim Time: 3067.906s (+5.449e-01s), Max Depth: 0.7313484608m, Max Vel: 0.5331392892m/s, Area: 132750.0m², Vol: 47217.6m³

Step 6000/29999, Sim Time: 3122.394s (+5.449e-01s), Max Depth: 0.7313999022m, Max Vel: 0.5330918994m/s, Area: 132725.0m², Vol: 47222.5m³

Step 6100/29999, Sim Time: 3176.882s (+5.449e-01s), Max Depth: 0.7314479179m, Max Vel: 0.5330633087m/s, Area: 132750.0m², Vol: 47227.4m³

Step 6200/29999, Sim Time: 3231.368s (+5.449e-01s), Max Depth: 0.7314903122m, Max Vel: 0.5330529199m/s, Area: 132725.0m², Vol: 47232.5m³

Step 6300/29999, Sim Time: 3285.854s (+5.448e-01s), Max Depth: 0.7315251443m, Max Vel: 0.5330558503m/s, Area: 132750.0m², Vol: 47237.7m³

Step 6400/29999, Sim Time: 3340.338s (+5.448e-01s), Max Depth: 0.7315518937m, Max Vel: 0.5330707193m/s, Area: 132750.0m², Vol: 47242.8m³

Step 6500/29999, Sim Time: 3394.821s (+5.448e-01s), Max Depth: 0.7315707212m, Max Vel: 0.5330941257m/s, Area: 132750.0m², Vol: 47248.1m³

Step 6600/29999, Sim Time: 3449.303s (+5.448e-01s), Max Depth: 0.7315824254m, Max Vel: 0.5331239618m/s, Area: 132750.0m², Vol: 47253.4m³

Step 6700/29999, Sim Time: 3503.784s (+5.448e-01s), Max Depth: 0.7315881111m, Max Vel: 0.5331582304m/s, Area: 132750.0m², Vol: 47258.6m³

Step 6800/29999, Sim Time: 3558.265s (+5.448e-01s), Max Depth: 0.7315890288m, Max Vel: 0.5331952069m/s, Area: 132750.0m², Vol: 47263.8m³

Step 6900/29999, Sim Time: 3612.745s (+5.448e-01s), Max Depth: 0.7315864039m, Max Vel: 0.5332335509m/s, Area: 132750.0m², Vol: 47269.0m³

Step 7000/29999, Sim Time: 3667.225s (+5.448e-01s), Max Depth: 0.7315813434m, Max Vel: 0.5332722404m/s, Area: 132775.0m², Vol: 47274.1m³

Step 7100/29999, Sim Time: 3721.704s (+5.448e-01s), Max Depth: 0.7315747844m, Max Vel: 0.5333105502m/s, Area: 132775.0m², Vol: 47279.2m³

Step 7200/29999, Sim Time: 3776.182s (+5.448e-01s), Max Depth: 0.7315674684m, Max Vel: 0.5333480181m/s, Area: 132775.0m², Vol: 47284.4m³

Step 7300/29999, Sim Time: 3830.661s (+5.448e-01s), Max Depth: 0.7315599425m, Max Vel: 0.5333843852m/s, Area: 132775.0m², Vol: 47289.6m³

Step 7400/29999, Sim Time: 3885.139s (+5.448e-01s), Max Depth: 0.7315525807m, Max Vel: 0.5334195496m/s, Area: 132800.0m², Vol: 47294.8m³

Step 7500/29999, Sim Time: 3939.616s (+5.448e-01s), Max Depth: 0.7315456125m, Max Vel: 0.5334535243m/s, Area: 132800.0m², Vol: 47299.9m³

Step 7600/29999, Sim Time: 3994.093s (+5.448e-01s), Max Depth: 0.7315391523m, Max Vel: 0.5334863965m/s, Area: 132800.0m², Vol: 47305.1m³

Step 7700/29999, Sim Time: 4048.570s (+5.448e-01s), Max Depth: 0.7315332296m, Max Vel: 0.5335182974m/s, Area: 132825.0m², Vol: 47310.2m³

Step 7800/29999, Sim Time: 4103.046s (+5.448e-01s), Max Depth: 0.7315278183m, Max Vel: 0.5335493809m/s, Area: 132825.0m², Vol: 47315.3m³

Step 7900/29999, Sim Time: 4157.522s (+5.448e-01s), Max Depth: 0.7315228586m, Max Vel: 0.5335798062m/s, Area: 132825.0m², Vol: 47320.5m³

Step 8000/29999, Sim Time: 4211.998s (+5.448e-01s), Max Depth: 0.7315182748m, Max Vel: 0.5336097262m/s, Area: 132850.0m², Vol: 47325.9m³

Step 8100/29999, Sim Time: 4266.474s (+5.448e-01s), Max Depth: 0.7315139878m, Max Vel: 0.5336392799m/s, Area: 132850.0m², Vol: 47331.3m³

Step 8200/29999, Sim Time: 4320.949s (+5.447e-01s), Max Depth: 0.7315099236m, Max Vel: 0.5336685893m/s, Area: 132850.0m², Vol: 47336.7m³

Step 8300/29999, Sim Time: 4375.423s (+5.447e-01s), Max Depth: 0.7315060178m, Max Vel: 0.5336977594m/s, Area: 132875.0m², Vol: 47342.3m³

Step 8400/29999, Sim Time: 4429.897s (+5.447e-01s), Max Depth: 0.7315022181m, Max Vel: 0.5337268865m/s, Area: 132875.0m², Vol: 47347.9m³

Step 8500/29999, Sim Time: 4484.371s (+5.447e-01s), Max Depth: 0.7314984855m, Max Vel: 0.5337560582m/s, Area: 132875.0m², Vol: 47353.6m³

Step 8600/29999, Sim Time: 4538.845s (+5.447e-01s), Max Depth: 0.7314947919m, Max Vel: 0.5337853492m/s, Area: 132875.0m², Vol: 47359.4m³

Step 8700/29999, Sim Time: 4593.318s (+5.447e-01s), Max Depth: 0.7314911178m, Max Vel: 0.5338148246m/s, Area: 132875.0m², Vol: 47365.1m³

Step 8800/29999, Sim Time: 4647.790s (+5.447e-01s), Max Depth: 0.7314874511m, Max Vel: 0.5338445782m/s, Area: 132900.0m², Vol: 47370.9m³

Step 8900/29999, Sim Time: 4702.263s (+5.447e-01s), Max Depth: 0.7314837948m, Max Vel: 0.5338748102m/s, Area: 132925.0m², Vol: 47376.7m³

Step 9000/29999, Sim Time: 4756.735s (+5.447e-01s), Max Depth: 0.7314801774m, Max Vel: 0.5339058987m/s, Area: 132950.0m², Vol: 47382.6m³

Step 9100/29999, Sim Time: 4811.206s (+5.447e-01s), Max Depth: 0.7314766173m, Max Vel: 0.5339378285m/s, Area: 132950.0m², Vol: 47388.8m³

Step 9200/29999, Sim Time: 4865.677s (+5.447e-01s), Max Depth: 0.7314731173m, Max Vel: 0.5339720495m/s, Area: 132950.0m², Vol: 47395.0m³

Step 9300/29999, Sim Time: 4920.148s (+5.447e-01s), Max Depth: 0.7314699829m, Max Vel: 0.5340101751m/s, Area: 132950.0m², Vol: 47401.3m³

Step 9400/29999, Sim Time: 4974.618s (+5.447e-01s), Max Depth: 0.7314670349m, Max Vel: 0.5340496203m/s, Area: 132950.0m², Vol: 47407.5m³

Step 9500/29999, Sim Time: 5029.087s (+5.447e-01s), Max Depth: 0.7314639771m, Max Vel: 0.5340905110m/s, Area: 132950.0m², Vol: 47413.8m³

Step 9600/29999, Sim Time: 5083.556s (+5.447e-01s), Max Depth: 0.7314606996m, Max Vel: 0.5341324137m/s, Area: 133000.0m², Vol: 47420.1m³

Step 9700/29999, Sim Time: 5138.024s (+5.447e-01s), Max Depth: 0.7314570905m, Max Vel: 0.5341750181m/s, Area: 133000.0m², Vol: 47426.6m³

Step 9800/29999, Sim Time: 5192.491s (+5.447e-01s), Max Depth: 0.7314530963m, Max Vel: 0.5342183236m/s, Area: 133025.0m², Vol: 47433.2m³

Step 9900/29999, Sim Time: 5246.958s (+5.447e-01s), Max Depth: 0.7314486950m, Max Vel: 0.5342629091m/s, Area: 133025.0m², Vol: 47440.2m³

Step 10000/29999, Sim Time: 5301.425s (+5.447e-01s), Max Depth: 0.7314447709m, Max Vel: 0.5343170555m/s, Area: 133050.0m², Vol: 47447.2m³

Step 10100/29999, Sim Time: 5355.890s (+5.447e-01s), Max Depth: 0.7314416109m, Max Vel: 0.5343679321m/s, Area: 133075.0m², Vol: 47454.3m³

Step 10200/29999, Sim Time: 5410.355s (+5.446e-01s), Max Depth: 0.7314374267m, Max Vel: 0.5344214176m/s, Area: 133075.0m², Vol: 47461.5m³

Step 10300/29999, Sim Time: 5464.819s (+5.446e-01s), Max Depth: 0.7314323563m, Max Vel: 0.5344749787m/s, Area: 133125.0m², Vol: 47468.7m³

Step 10400/29999, Sim Time: 5519.282s (+5.446e-01s), Max Depth: 0.7314265474m, Max Vel: 0.5345337927m/s, Area: 133125.0m², Vol: 47476.3m³

Step 10500/29999, Sim Time: 5573.744s (+5.446e-01s), Max Depth: 0.7314222760m, Max Vel: 0.5346008029m/s, Area: 133150.0m², Vol: 47483.9m³

Step 10600/29999, Sim Time: 5628.205s (+5.446e-01s), Max Depth: 0.7314181813m, Max Vel: 0.5346707089m/s, Area: 133175.0m², Vol: 47491.4m³

Step 10700/29999, Sim Time: 5682.665s (+5.446e-01s), Max Depth: 0.7314130758m, Max Vel: 0.5347409628m/s, Area: 133175.0m², Vol: 47499.1m³

Step 10800/29999, Sim Time: 5737.124s (+5.446e-01s), Max Depth: 0.7314064001m, Max Vel: 0.5348114721m/s, Area: 133200.0m², Vol: 47506.7m³

Step 10900/29999, Sim Time: 5791.583s (+5.446e-01s), Max Depth: 0.7313981482m, Max Vel: 0.5348810796m/s, Area: 133200.0m², Vol: 47514.5m³

Step 11000/29999, Sim Time: 5846.040s (+5.446e-01s), Max Depth: 0.7313889291m, Max Vel: 0.5349604670m/s, Area: 133200.0m², Vol: 47522.3m³

Step 11100/29999, Sim Time: 5900.496s (+5.446e-01s), Max Depth: 0.7313812273m, Max Vel: 0.5350378462m/s, Area: 133225.0m², Vol: 47530.0m³

Step 11200/29999, Sim Time: 5954.951s (+5.445e-01s), Max Depth: 0.7313715622m, Max Vel: 0.5351163225m/s, Area: 133225.0m², Vol: 47537.6m³

Step 11300/29999, Sim Time: 6009.405s (+5.445e-01s), Max Depth: 0.7313610412m, Max Vel: 0.5351932235m/s, Area: 133250.0m², Vol: 47545.3m³

Step 11400/29999, Sim Time: 6063.858s (+5.445e-01s), Max Depth: 0.7313494414m, Max Vel: 0.5352687643m/s, Area: 133275.0m², Vol: 47553.0m³

Step 11500/29999, Sim Time: 6118.310s (+5.445e-01s), Max Depth: 0.7313371216m, Max Vel: 0.5353433062m/s, Area: 133275.0m², Vol: 47560.8m³

Step 11600/29999, Sim Time: 6172.762s (+5.445e-01s), Max Depth: 0.7313244138m, Max Vel: 0.5354167409m/s, Area: 133275.0m², Vol: 47568.5m³

Step 11700/29999, Sim Time: 6227.212s (+5.445e-01s), Max Depth: 0.7313116111m, Max Vel: 0.5354894348m/s, Area: 133275.0m², Vol: 47576.4m³

Step 11800/29999, Sim Time: 6281.662s (+5.445e-01s), Max Depth: 0.7312990003m, Max Vel: 0.5355620505m/s, Area: 133300.0m², Vol: 47584.2m³

Step 11900/29999, Sim Time: 6336.111s (+5.445e-01s), Max Depth: 0.7312868284m, Max Vel: 0.5356348088m/s, Area: 133300.0m², Vol: 47592.0m³

Step 12000/29999, Sim Time: 6390.559s (+5.445e-01s), Max Depth: 0.7312752160m, Max Vel: 0.5357082271m/s, Area: 133300.0m², Vol: 47599.8m³

Step 12100/29999, Sim Time: 6445.006s (+5.445e-01s), Max Depth: 0.7312642033m, Max Vel: 0.5357827420m/s, Area: 133350.0m², Vol: 47607.6m³

Step 12200/29999, Sim Time: 6499.452s (+5.445e-01s), Max Depth: 0.7312537110m, Max Vel: 0.5358583228m/s, Area: 133400.0m², Vol: 47615.5m³

Step 12300/29999, Sim Time: 6553.897s (+5.444e-01s), Max Depth: 0.7312435956m, Max Vel: 0.5359347705m/s, Area: 133375.0m², Vol: 47623.5m³

Step 12400/29999, Sim Time: 6608.341s (+5.444e-01s), Max Depth: 0.7312337047m, Max Vel: 0.5360120294m/s, Area: 133375.0m², Vol: 47631.7m³

Step 12500/29999, Sim Time: 6662.784s (+5.444e-01s), Max Depth: 0.7312238951m, Max Vel: 0.5360899835m/s, Area: 133425.0m², Vol: 47640.0m³

Step 12600/29999, Sim Time: 6717.226s (+5.444e-01s), Max Depth: 0.7312140906m, Max Vel: 0.5361697941m/s, Area: 133425.0m², Vol: 47648.2m³

Step 12700/29999, Sim Time: 6771.667s (+5.444e-01s), Max Depth: 0.7312044593m, Max Vel: 0.5362511832m/s, Area: 133425.0m², Vol: 47656.6m³

Step 12800/29999, Sim Time: 6826.107s (+5.444e-01s), Max Depth: 0.7311947217m, Max Vel: 0.5363336019m/s, Area: 133450.0m², Vol: 47664.9m³

Step 12900/29999, Sim Time: 6880.546s (+5.444e-01s), Max Depth: 0.7311848412m, Max Vel: 0.5364175241m/s, Area: 133475.0m², Vol: 47673.3m³

Step 13000/29999, Sim Time: 6934.984s (+5.444e-01s), Max Depth: 0.7311852951m, Max Vel: 0.5365087715m/s, Area: 133500.0m², Vol: 47681.7m³

Step 13100/29999, Sim Time: 6989.421s (+5.444e-01s), Max Depth: 0.7311488606m, Max Vel: 0.5365892259m/s, Area: 133500.0m², Vol: 47690.1m³

Step 13200/29999, Sim Time: 7043.857s (+5.444e-01s), Max Depth: 0.7310917142m, Max Vel: 0.5367116785m/s, Area: 133550.0m², Vol: 47698.5m³

Step 13300/29999, Sim Time: 7098.293s (+5.444e-01s), Max Depth: 0.7310162903m, Max Vel: 0.5368517891m/s, Area: 133550.0m², Vol: 47706.8m³

Step 13400/29999, Sim Time: 7152.730s (+5.444e-01s), Max Depth: 0.7309396048m, Max Vel: 0.5369922576m/s, Area: 133550.0m², Vol: 47715.2m³

Step 13500/29999, Sim Time: 7207.166s (+5.444e-01s), Max Depth: 0.7308702246m, Max Vel: 0.5371281408m/s, Area: 133550.0m², Vol: 47723.6m³

Step 13600/29999, Sim Time: 7261.602s (+5.444e-01s), Max Depth: 0.7308106629m, Max Vel: 0.5372551877m/s, Area: 133575.0m², Vol: 47732.0m³

Step 13700/29999, Sim Time: 7316.037s (+5.444e-01s), Max Depth: 0.7307621353m, Max Vel: 0.5373731651m/s, Area: 133600.0m², Vol: 47740.4m³

Step 13800/29999, Sim Time: 7370.472s (+5.443e-01s), Max Depth: 0.7307240849m, Max Vel: 0.5374854913m/s, Area: 133600.0m², Vol: 47749.1m³

Step 13900/29999, Sim Time: 7424.906s (+5.443e-01s), Max Depth: 0.7306978909m, Max Vel: 0.5375933918m/s, Area: 133600.0m², Vol: 47758.0m³

Step 14000/29999, Sim Time: 7479.339s (+5.443e-01s), Max Depth: 0.7306979651m, Max Vel: 0.5376954571m/s, Area: 133625.0m², Vol: 47767.0m³

Step 14100/29999, Sim Time: 7533.769s (+5.443e-01s), Max Depth: 0.7307086551m, Max Vel: 0.5377891265m/s, Area: 133625.0m², Vol: 47776.2m³

Step 14200/29999, Sim Time: 7588.198s (+5.443e-01s), Max Depth: 0.7307118614m, Max Vel: 0.5378831843m/s, Area: 133675.0m², Vol: 47785.5m³

Step 14300/29999, Sim Time: 7642.626s (+5.443e-01s), Max Depth: 0.7307069136m, Max Vel: 0.5379868971m/s, Area: 133650.0m², Vol: 47795.0m³

Step 14400/29999, Sim Time: 7697.051s (+5.442e-01s), Max Depth: 0.7307016000m, Max Vel: 0.5381000501m/s, Area: 133775.0m², Vol: 47804.6m³

Step 14500/29999, Sim Time: 7751.475s (+5.442e-01s), Max Depth: 0.7306988962m, Max Vel: 0.5382164715m/s, Area: 133800.0m², Vol: 47814.6m³

Step 14600/29999, Sim Time: 7805.897s (+5.442e-01s), Max Depth: 0.7306970412m, Max Vel: 0.5383346089m/s, Area: 133850.0m², Vol: 47825.2m³

Step 14700/29999, Sim Time: 7860.317s (+5.442e-01s), Max Depth: 0.7306945762m, Max Vel: 0.5384622844m/s, Area: 133850.0m², Vol: 47836.1m³

Step 14800/29999, Sim Time: 7914.735s (+5.442e-01s), Max Depth: 0.7306930687m, Max Vel: 0.5386011001m/s, Area: 133850.0m², Vol: 47847.4m³

Step 14900/29999, Sim Time: 7969.150s (+5.441e-01s), Max Depth: 0.7306897800m, Max Vel: 0.5387422203m/s, Area: 133850.0m², Vol: 47858.7m³

Step 15000/29999, Sim Time: 8023.564s (+5.441e-01s), Max Depth: 0.7306855408m, Max Vel: 0.5388938431m/s, Area: 133850.0m², Vol: 47870.1m³

Step 15100/29999, Sim Time: 8077.974s (+5.441e-01s), Max Depth: 0.7306817735m, Max Vel: 0.5390493125m/s, Area: 133900.0m², Vol: 47881.5m³

Step 15200/29999, Sim Time: 8132.382s (+5.441e-01s), Max Depth: 0.7306776282m, Max Vel: 0.5392071562m/s, Area: 133950.0m², Vol: 47893.0m³

Step 15300/29999, Sim Time: 8186.788s (+5.440e-01s), Max Depth: 0.7306728645m, Max Vel: 0.5393826047m/s, Area: 133950.0m², Vol: 47904.8m³

Step 15400/29999, Sim Time: 8241.190s (+5.440e-01s), Max Depth: 0.7307150413m, Max Vel: 0.5395607776m/s, Area: 133950.0m², Vol: 47916.7m³

Step 15500/29999, Sim Time: 8295.587s (+5.439e-01s), Max Depth: 0.7307844735m, Max Vel: 0.5397327128m/s, Area: 133950.0m², Vol: 47928.7m³

Step 15600/29999, Sim Time: 8349.979s (+5.439e-01s), Max Depth: 0.7308540717m, Max Vel: 0.5399084111m/s, Area: 133950.0m², Vol: 47940.6m³

Step 15700/29999, Sim Time: 8404.366s (+5.438e-01s), Max Depth: 0.7309233401m, Max Vel: 0.5400801687m/s, Area: 133950.0m², Vol: 47952.6m³

Step 15800/29999, Sim Time: 8458.748s (+5.438e-01s), Max Depth: 0.7309928460m, Max Vel: 0.5402512736m/s, Area: 133950.0m², Vol: 47964.4m³

Step 15900/29999, Sim Time: 8513.125s (+5.437e-01s), Max Depth: 0.7310626108m, Max Vel: 0.5404220645m/s, Area: 133925.0m², Vol: 47976.1m³

Step 16000/29999, Sim Time: 8567.497s (+5.437e-01s), Max Depth: 0.7311326174m, Max Vel: 0.5405934984m/s, Area: 133950.0m², Vol: 47987.8m³

Step 16100/29999, Sim Time: 8621.863s (+5.436e-01s), Max Depth: 0.7312028104m, Max Vel: 0.5407655474m/s, Area: 133975.0m², Vol: 47999.4m³

Step 16200/29999, Sim Time: 8676.225s (+5.436e-01s), Max Depth: 0.7312731640m, Max Vel: 0.5409379795m/s, Area: 134025.0m², Vol: 48011.1m³

Step 16300/29999, Sim Time: 8730.581s (+5.435e-01s), Max Depth: 0.7313509921m, Max Vel: 0.5412085843m/s, Area: 134100.0m², Vol: 48022.9m³

Step 16400/29999, Sim Time: 8784.930s (+5.435e-01s), Max Depth: 0.7314292873m, Max Vel: 0.5414060457m/s, Area: 134100.0m², Vol: 48034.8m³

Step 16500/29999, Sim Time: 8839.273s (+5.434e-01s), Max Depth: 0.7315143974m, Max Vel: 0.5416279276m/s, Area: 134075.0m², Vol: 48046.5m³

Step 16600/29999, Sim Time: 8893.610s (+5.433e-01s), Max Depth: 0.7315996904m, Max Vel: 0.5418397770m/s, Area: 134125.0m², Vol: 48058.1m³

Step 16700/29999, Sim Time: 8947.941s (+5.433e-01s), Max Depth: 0.7316860378m, Max Vel: 0.5420473792m/s, Area: 134175.0m², Vol: 48069.6m³

Step 16800/29999, Sim Time: 9002.265s (+5.432e-01s), Max Depth: 0.7317848712m, Max Vel: 0.5422647178m/s, Area: 134225.0m², Vol: 48081.1m³

Step 16900/29999, Sim Time: 9056.583s (+5.431e-01s), Max Depth: 0.7318749469m, Max Vel: 0.5424778523m/s, Area: 134225.0m², Vol: 48092.5m³

Step 17000/29999, Sim Time: 9110.894s (+5.431e-01s), Max Depth: 0.7319680678m, Max Vel: 0.5426968475m/s, Area: 134250.0m², Vol: 48103.6m³

Step 17100/29999, Sim Time: 9165.199s (+5.430e-01s), Max Depth: 0.7320599238m, Max Vel: 0.5429184219m/s, Area: 134275.0m², Vol: 48114.4m³

Step 17200/29999, Sim Time: 9219.497s (+5.429e-01s), Max Depth: 0.7321532742m, Max Vel: 0.5431394667m/s, Area: 134300.0m², Vol: 48124.9m³

Step 17300/29999, Sim Time: 9273.789s (+5.429e-01s), Max Depth: 0.7322454014m, Max Vel: 0.5433667334m/s, Area: 134350.0m², Vol: 48135.3m³

Step 17400/29999, Sim Time: 9328.074s (+5.428e-01s), Max Depth: 0.7323390972m, Max Vel: 0.5435917757m/s, Area: 134325.0m², Vol: 48145.6m³

Step 17500/29999, Sim Time: 9382.352s (+5.427e-01s), Max Depth: 0.7324323051m, Max Vel: 0.5438181577m/s, Area: 134350.0m², Vol: 48155.5m³

Step 17600/29999, Sim Time: 9436.623s (+5.427e-01s), Max Depth: 0.7325245241m, Max Vel: 0.5440453875m/s, Area: 134375.0m², Vol: 48165.2m³

Step 17700/29999, Sim Time: 9490.888s (+5.426e-01s), Max Depth: 0.7326193114m, Max Vel: 0.5442918571m/s, Area: 134375.0m², Vol: 48174.8m³

Step 17800/29999, Sim Time: 9545.146s (+5.425e-01s), Max Depth: 0.7327096770m, Max Vel: 0.5445203400m/s, Area: 134350.0m², Vol: 48183.9m³

Step 17900/29999, Sim Time: 9599.397s (+5.425e-01s), Max Depth: 0.7327987953m, Max Vel: 0.5447465777m/s, Area: 134375.0m², Vol: 48192.3m³

Step 18000/29999, Sim Time: 9653.642s (+5.424e-01s), Max Depth: 0.7328843216m, Max Vel: 0.5449637409m/s, Area: 134350.0m², Vol: 48200.1m³

Step 18100/29999, Sim Time: 9707.880s (+5.424e-01s), Max Depth: 0.7329665255m, Max Vel: 0.5451725667m/s, Area: 134375.0m², Vol: 48207.3m³

Step 18200/29999, Sim Time: 9762.113s (+5.423e-01s), Max Depth: 0.7330467021m, Max Vel: 0.5453713339m/s, Area: 134400.0m², Vol: 48214.1m³

Step 18300/29999, Sim Time: 9816.340s (+5.422e-01s), Max Depth: 0.7331341533m, Max Vel: 0.5455815328m/s, Area: 134375.0m², Vol: 48220.5m³

Step 18400/29999, Sim Time: 9870.560s (+5.422e-01s), Max Depth: 0.7332155607m, Max Vel: 0.5457759025m/s, Area: 134375.0m², Vol: 48226.5m³

Step 18500/29999, Sim Time: 9924.775s (+5.421e-01s), Max Depth: 0.7332961267m, Max Vel: 0.5459650288m/s, Area: 134375.0m², Vol: 48231.8m³

Step 18600/29999, Sim Time: 9978.985s (+5.421e-01s), Max Depth: 0.7333733738m, Max Vel: 0.5461573178m/s, Area: 134400.0m², Vol: 48236.5m³

Step 18700/29999, Sim Time: 10033.189s (+5.420e-01s), Max Depth: 0.7334483110m, Max Vel: 0.5463420137m/s, Area: 134400.0m², Vol: 48240.5m³

Step 18800/29999, Sim Time: 10087.387s (+5.420e-01s), Max Depth: 0.7335209368m, Max Vel: 0.5465185790m/s, Area: 134450.0m², Vol: 48243.6m³

Step 18900/29999, Sim Time: 10141.580s (+5.419e-01s), Max Depth: 0.7335920163m, Max Vel: 0.5466943610m/s, Area: 134450.0m², Vol: 48246.3m³

Step 19000/29999, Sim Time: 10195.769s (+5.419e-01s), Max Depth: 0.7336615884m, Max Vel: 0.5468767397m/s, Area: 134400.0m², Vol: 48248.6m³

Step 19100/29999, Sim Time: 10249.952s (+5.418e-01s), Max Depth: 0.7337282251m, Max Vel: 0.5470442220m/s, Area: 134450.0m², Vol: 48250.3m³

Step 19200/29999, Sim Time: 10304.130s (+5.418e-01s), Max Depth: 0.7337920383m, Max Vel: 0.5472044826m/s, Area: 134475.0m², Vol: 48251.6m³

Step 19300/29999, Sim Time: 10358.304s (+5.417e-01s), Max Depth: 0.7338525083m, Max Vel: 0.5473587423m/s, Area: 134500.0m², Vol: 48252.6m³

Step 19400/29999, Sim Time: 10412.474s (+5.417e-01s), Max Depth: 0.7339098434m, Max Vel: 0.5475009857m/s, Area: 134550.0m², Vol: 48253.4m³

Step 19500/29999, Sim Time: 10466.639s (+5.416e-01s), Max Depth: 0.7339643313m, Max Vel: 0.5476384993m/s, Area: 134525.0m², Vol: 48254.2m³

Step 19600/29999, Sim Time: 10520.801s (+5.416e-01s), Max Depth: 0.7340159117m, Max Vel: 0.5477663325m/s, Area: 134500.0m², Vol: 48254.7m³

Step 19700/29999, Sim Time: 10574.959s (+5.416e-01s), Max Depth: 0.7340659650m, Max Vel: 0.5478811850m/s, Area: 134475.0m², Vol: 48254.6m³

Step 19800/29999, Sim Time: 10629.114s (+5.415e-01s), Max Depth: 0.7341128989m, Max Vel: 0.5479869793m/s, Area: 134425.0m², Vol: 48253.8m³

Step 19900/29999, Sim Time: 10683.265s (+5.415e-01s), Max Depth: 0.7341566777m, Max Vel: 0.5481011115m/s, Area: 134300.0m², Vol: 48251.8m³

Step 20000/29999, Sim Time: 10737.414s (+5.415e-01s), Max Depth: 0.7341966822m, Max Vel: 0.5482009619m/s, Area: 134250.0m², Vol: 48248.7m³

Step 20100/29999, Sim Time: 10791.560s (+5.414e-01s), Max Depth: 0.7342336731m, Max Vel: 0.5482923875m/s, Area: 134250.0m², Vol: 48244.9m³

Step 20200/29999, Sim Time: 10845.703s (+5.414e-01s), Max Depth: 0.7342677673m, Max Vel: 0.5483704688m/s, Area: 134175.0m², Vol: 48240.0m³

Step 20300/29999, Sim Time: 10899.844s (+5.414e-01s), Max Depth: 0.7342976904m, Max Vel: 0.5484402555m/s, Area: 134225.0m², Vol: 48234.6m³

Step 20400/29999, Sim Time: 10953.983s (+5.414e-01s), Max Depth: 0.7343268050m, Max Vel: 0.5485021170m/s, Area: 134275.0m², Vol: 48228.6m³

Step 20500/29999, Sim Time: 11008.120s (+5.414e-01s), Max Depth: 0.7343528964m, Max Vel: 0.5485761808m/s, Area: 134250.0m², Vol: 48222.3m³

Step 20600/29999, Sim Time: 11062.255s (+5.413e-01s), Max Depth: 0.7343755848m, Max Vel: 0.5486321435m/s, Area: 134275.0m², Vol: 48215.4m³

Step 20700/29999, Sim Time: 11116.388s (+5.413e-01s), Max Depth: 0.7343971833m, Max Vel: 0.5486824261m/s, Area: 134275.0m², Vol: 48207.8m³

Step 20800/29999, Sim Time: 11170.521s (+5.413e-01s), Max Depth: 0.7344140779m, Max Vel: 0.5487253835m/s, Area: 134325.0m², Vol: 48199.7m³

Step 20900/29999, Sim Time: 11224.652s (+5.413e-01s), Max Depth: 0.7344281185m, Max Vel: 0.5487603554m/s, Area: 134250.0m², Vol: 48190.9m³

Step 21000/29999, Sim Time: 11278.782s (+5.413e-01s), Max Depth: 0.7344388511m, Max Vel: 0.5487873334m/s, Area: 134150.0m², Vol: 48180.7m³

Step 21100/29999, Sim Time: 11332.911s (+5.413e-01s), Max Depth: 0.7344461939m, Max Vel: 0.5488065780m/s, Area: 134125.0m², Vol: 48169.7m³

Step 21200/29999, Sim Time: 11387.040s (+5.413e-01s), Max Depth: 0.7344502001m, Max Vel: 0.5488178718m/s, Area: 134100.0m², Vol: 48158.0m³

Step 21300/29999, Sim Time: 11441.169s (+5.413e-01s), Max Depth: 0.7344511752m, Max Vel: 0.5488210460m/s, Area: 134050.0m², Vol: 48145.8m³

Step 21400/29999, Sim Time: 11495.298s (+5.413e-01s), Max Depth: 0.7344492517m, Max Vel: 0.5488165604m/s, Area: 134025.0m², Vol: 48132.8m³

Step 21500/29999, Sim Time: 11549.427s (+5.413e-01s), Max Depth: 0.7344443911m, Max Vel: 0.5488047388m/s, Area: 134025.0m², Vol: 48119.3m³

Step 21600/29999, Sim Time: 11603.557s (+5.413e-01s), Max Depth: 0.7344364513m, Max Vel: 0.5487853252m/s, Area: 134025.0m², Vol: 48105.7m³

Step 21700/29999, Sim Time: 11657.687s (+5.413e-01s), Max Depth: 0.7344255027m, Max Vel: 0.5487584580m/s, Area: 134000.0m², Vol: 48091.9m³

Step 21800/29999, Sim Time: 11711.818s (+5.413e-01s), Max Depth: 0.7344116949m, Max Vel: 0.5487329288m/s, Area: 133975.0m², Vol: 48077.6m³

Step 21900/29999, Sim Time: 11765.950s (+5.413e-01s), Max Depth: 0.7343946430m, Max Vel: 0.5486928681m/s, Area: 133950.0m², Vol: 48062.6m³

Step 22000/29999, Sim Time: 11820.084s (+5.413e-01s), Max Depth: 0.7343757804m, Max Vel: 0.5486435505m/s, Area: 133925.0m², Vol: 48047.4m³

Step 22100/29999, Sim Time: 11874.219s (+5.414e-01s), Max Depth: 0.7343547144m, Max Vel: 0.5485844874m/s, Area: 133900.0m², Vol: 48032.1m³

Step 22200/29999, Sim Time: 11928.355s (+5.414e-01s), Max Depth: 0.7343296892m, Max Vel: 0.5485225715m/s, Area: 133875.0m², Vol: 48017.0m³

Step 22300/29999, Sim Time: 11982.493s (+5.414e-01s), Max Depth: 0.7343033228m, Max Vel: 0.5484685297m/s, Area: 133800.0m², Vol: 48002.5m³

Step 22400/29999, Sim Time: 12036.634s (+5.414e-01s), Max Depth: 0.7342741834m, Max Vel: 0.5483972350m/s, Area: 133800.0m², Vol: 47988.4m³

Step 22500/29999, Sim Time: 12090.776s (+5.414e-01s), Max Depth: 0.7342430707m, Max Vel: 0.5483178910m/s, Area: 133700.0m², Vol: 47975.0m³

Step 22600/29999, Sim Time: 12144.921s (+5.415e-01s), Max Depth: 0.7342101460m, Max Vel: 0.5482329674m/s, Area: 133700.0m², Vol: 47962.2m³

Step 22700/29999, Sim Time: 12199.068s (+5.415e-01s), Max Depth: 0.7341756095m, Max Vel: 0.5481458986m/s, Area: 133725.0m², Vol: 47949.7m³

Step 22800/29999, Sim Time: 12253.218s (+5.415e-01s), Max Depth: 0.7341393097m, Max Vel: 0.5480538503m/s, Area: 133725.0m², Vol: 47937.6m³

Step 22900/29999, Sim Time: 12307.371s (+5.415e-01s), Max Depth: 0.7341014653m, Max Vel: 0.5479594632m/s, Area: 133650.0m², Vol: 47925.8m³

Step 23000/29999, Sim Time: 12361.526s (+5.416e-01s), Max Depth: 0.7340623888m, Max Vel: 0.5478642067m/s, Area: 133625.0m², Vol: 47914.3m³

Step 23100/29999, Sim Time: 12415.684s (+5.416e-01s), Max Depth: 0.7340230119m, Max Vel: 0.5477599293m/s, Area: 133650.0m², Vol: 47903.3m³

Step 23200/29999, Sim Time: 12469.845s (+5.416e-01s), Max Depth: 0.7339832697m, Max Vel: 0.5476558487m/s, Area: 133625.0m², Vol: 47893.0m³

Step 23300/29999, Sim Time: 12524.009s (+5.417e-01s), Max Depth: 0.7339435289m, Max Vel: 0.5475594110m/s, Area: 133625.0m², Vol: 47883.5m³

Step 23400/29999, Sim Time: 12578.176s (+5.417e-01s), Max Depth: 0.7339034614m, Max Vel: 0.5474555472m/s, Area: 133675.0m², Vol: 47874.5m³

Step 23500/29999, Sim Time: 12632.346s (+5.417e-01s), Max Depth: 0.7338634305m, Max Vel: 0.5473585862m/s, Area: 133700.0m², Vol: 47866.4m³

Step 23600/29999, Sim Time: 12686.519s (+5.417e-01s), Max Depth: 0.7338226944m, Max Vel: 0.5472572306m/s, Area: 133675.0m², Vol: 47859.2m³

Step 23700/29999, Sim Time: 12740.695s (+5.418e-01s), Max Depth: 0.7337787721m, Max Vel: 0.5471413638m/s, Area: 133675.0m², Vol: 47853.1m³

Step 23800/29999, Sim Time: 12794.874s (+5.418e-01s), Max Depth: 0.7337342034m, Max Vel: 0.5470288045m/s, Area: 133675.0m², Vol: 47847.5m³

Step 23900/29999, Sim Time: 12849.057s (+5.418e-01s), Max Depth: 0.7336894134m, Max Vel: 0.5469161197m/s, Area: 133650.0m², Vol: 47842.4m³

Step 24000/29999, Sim Time: 12903.242s (+5.419e-01s), Max Depth: 0.7336448427m, Max Vel: 0.5468023421m/s, Area: 133675.0m², Vol: 47837.7m³

Step 24100/29999, Sim Time: 12957.431s (+5.419e-01s), Max Depth: 0.7336003646m, Max Vel: 0.5466903896m/s, Area: 133650.0m², Vol: 47833.3m³

Step 24200/29999, Sim Time: 13011.624s (+5.419e-01s), Max Depth: 0.7335560956m, Max Vel: 0.5465809077m/s, Area: 133650.0m², Vol: 47829.2m³

Step 24300/29999, Sim Time: 13065.819s (+5.420e-01s), Max Depth: 0.7335122538m, Max Vel: 0.5464739490m/s, Area: 133600.0m², Vol: 47825.6m³

Step 24400/29999, Sim Time: 13120.018s (+5.420e-01s), Max Depth: 0.7334688511m, Max Vel: 0.5463649529m/s, Area: 133600.0m², Vol: 47822.2m³

Step 24500/29999, Sim Time: 13174.219s (+5.420e-01s), Max Depth: 0.7334258587m, Max Vel: 0.5462560414m/s, Area: 133600.0m², Vol: 47818.9m³

Step 24600/29999, Sim Time: 13228.424s (+5.421e-01s), Max Depth: 0.7333808235m, Max Vel: 0.5461245204m/s, Area: 133600.0m², Vol: 47815.8m³

Step 24700/29999, Sim Time: 13282.633s (+5.421e-01s), Max Depth: 0.7333376635m, Max Vel: 0.5460151960m/s, Area: 133600.0m², Vol: 47812.7m³

Step 24800/29999, Sim Time: 13336.844s (+5.421e-01s), Max Depth: 0.7332955344m, Max Vel: 0.5459037824m/s, Area: 133625.0m², Vol: 47809.6m³

Step 24900/29999, Sim Time: 13391.059s (+5.422e-01s), Max Depth: 0.7332561288m, Max Vel: 0.5458003907m/s, Area: 133650.0m², Vol: 47806.5m³

Step 25000/29999, Sim Time: 13445.276s (+5.422e-01s), Max Depth: 0.7332177212m, Max Vel: 0.5457018796m/s, Area: 133625.0m², Vol: 47803.6m³

Step 25100/29999, Sim Time: 13499.497s (+5.422e-01s), Max Depth: 0.7331797854m, Max Vel: 0.5455951510m/s, Area: 133600.0m², Vol: 47800.5m³

Step 25200/29999, Sim Time: 13553.720s (+5.422e-01s), Max Depth: 0.7331436018m, Max Vel: 0.5455041725m/s, Area: 133575.0m², Vol: 47797.2m³

Step 25300/29999, Sim Time: 13607.946s (+5.423e-01s), Max Depth: 0.7331086283m, Max Vel: 0.5454144414m/s, Area: 133625.0m², Vol: 47794.0m³

Step 25400/29999, Sim Time: 13662.174s (+5.423e-01s), Max Depth: 0.7330735588m, Max Vel: 0.5453263015m/s, Area: 133650.0m², Vol: 47790.4m³

Step 25500/29999, Sim Time: 13716.405s (+5.423e-01s), Max Depth: 0.7330405227m, Max Vel: 0.5452476695m/s, Area: 133575.0m², Vol: 47786.6m³

Step 25600/29999, Sim Time: 13770.638s (+5.423e-01s), Max Depth: 0.7330098747m, Max Vel: 0.5451727618m/s, Area: 133525.0m², Vol: 47782.5m³

Step 25700/29999, Sim Time: 13824.873s (+5.424e-01s), Max Depth: 0.7329818906m, Max Vel: 0.5451048197m/s, Area: 133575.0m², Vol: 47778.2m³

Step 25800/29999, Sim Time: 13879.110s (+5.424e-01s), Max Depth: 0.7329563533m, Max Vel: 0.5450382074m/s, Area: 133550.0m², Vol: 47773.8m³

Step 25900/29999, Sim Time: 13933.349s (+5.424e-01s), Max Depth: 0.7329335234m, Max Vel: 0.5449819757m/s, Area: 133525.0m², Vol: 47769.6m³

Step 26000/29999, Sim Time: 13987.590s (+5.424e-01s), Max Depth: 0.7329130709m, Max Vel: 0.5449331179m/s, Area: 133600.0m², Vol: 47765.3m³

Step 26100/29999, Sim Time: 14041.832s (+5.424e-01s), Max Depth: 0.7328946479m, Max Vel: 0.5448883162m/s, Area: 133625.0m², Vol: 47761.6m³

Step 26200/29999, Sim Time: 14096.075s (+5.424e-01s), Max Depth: 0.7328804658m, Max Vel: 0.5448481864m/s, Area: 133550.0m², Vol: 47758.1m³

Step 26300/29999, Sim Time: 14133.511s (+1.380e-01s), Max Depth: 0.7328724678m, Max Vel: 9.9999999990m/s, Area: 133550.0m², Vol: 47756.9m³

Step 26400/29999, Sim Time: 14147.311s (+1.380e-01s), Max Depth: 0.7328697724m, Max Vel: 9.9999999990m/s, Area: 133525.0m², Vol: 47757.3m³

Step 26500/29999, Sim Time: 14161.111s (+1.380e-01s), Max Depth: 0.7328672508m, Max Vel: 9.9999999991m/s, Area: 133525.0m², Vol: 47759.1m³

Step 26600/29999, Sim Time: 14186.827s (+5.424e-01s), Max Depth: 0.7328628339m, Max Vel: 0.5448022641m/s, Area: 133525.0m², Vol: 47762.7m³

Step 26700/29999, Sim Time: 14241.072s (+5.425e-01s), Max Depth: 0.7328547022m, Max Vel: 0.5447823443m/s, Area: 133550.0m², Vol: 47755.4m³

Step 26800/29999, Sim Time: 14295.318s (+5.425e-01s), Max Depth: 0.7328476913m, Max Vel: 0.5447635723m/s, Area: 133550.0m², Vol: 47748.9m³

Step 26900/29999, Sim Time: 14349.564s (+5.425e-01s), Max Depth: 0.7328421258m, Max Vel: 0.5447512655m/s, Area: 133425.0m², Vol: 47742.6m³

Step 27000/29999, Sim Time: 14403.811s (+5.425e-01s), Max Depth: 0.7328374823m, Max Vel: 0.5447385170m/s, Area: 133400.0m², Vol: 47735.9m³

Step 27100/29999, Sim Time: 14458.058s (+5.425e-01s), Max Depth: 0.7328338927m, Max Vel: 0.5447329059m/s, Area: 133425.0m², Vol: 47729.8m³

Step 27200/29999, Sim Time: 14512.305s (+5.425e-01s), Max Depth: 0.7328313135m, Max Vel: 0.5447252880m/s, Area: 133400.0m², Vol: 47724.2m³

Step 27300/29999, Sim Time: 14566.552s (+5.425e-01s), Max Depth: 0.7328296278m, Max Vel: 0.5447201264m/s, Area: 133350.0m², Vol: 47718.8m³

Step 27400/29999, Sim Time: 14620.800s (+5.425e-01s), Max Depth: 0.7328284912m, Max Vel: 0.5447206118m/s, Area: 133350.0m², Vol: 47713.4m³

Step 27500/29999, Sim Time: 14675.047s (+5.425e-01s), Max Depth: 0.7328280101m, Max Vel: 0.5447164364m/s, Area: 133375.0m², Vol: 47708.2m³

Step 27600/29999, Sim Time: 14729.294s (+5.425e-01s), Max Depth: 0.7328281985m, Max Vel: 0.5447205417m/s, Area: 133350.0m², Vol: 47703.2m³

Step 27700/29999, Sim Time: 14783.542s (+5.425e-01s), Max Depth: 0.7328288176m, Max Vel: 0.5447203293m/s, Area: 133300.0m², Vol: 47698.1m³

Step 27800/29999, Sim Time: 14837.789s (+5.425e-01s), Max Depth: 0.7328298222m, Max Vel: 0.5447248325m/s, Area: 133300.0m², Vol: 47693.0m³

Step 27900/29999, Sim Time: 14892.036s (+5.425e-01s), Max Depth: 0.7328311518m, Max Vel: 0.5447279929m/s, Area: 133325.0m², Vol: 47688.1m³

Step 28000/29999, Sim Time: 14946.284s (+5.425e-01s), Max Depth: 0.7328327403m, Max Vel: 0.5447304550m/s, Area: 133300.0m², Vol: 47683.6m³

Step 28100/29999, Sim Time: 15000.531s (+5.425e-01s), Max Depth: 0.7328344797m, Max Vel: 0.5447372166m/s, Area: 133350.0m², Vol: 47679.9m³

Step 28200/29999, Sim Time: 15054.778s (+5.425e-01s), Max Depth: 0.7328363282m, Max Vel: 0.5447434426m/s, Area: 133425.0m², Vol: 47677.6m³

Step 28300/29999, Sim Time: 15109.024s (+5.425e-01s), Max Depth: 0.7328381246m, Max Vel: 0.5447458801m/s, Area: 133450.0m², Vol: 47675.9m³

Step 28400/29999, Sim Time: 15163.271s (+5.425e-01s), Max Depth: 0.7328400569m, Max Vel: 0.5447494744m/s, Area: 133450.0m², Vol: 47673.1m³

Step 28500/29999, Sim Time: 15217.517s (+5.425e-01s), Max Depth: 0.7328417992m, Max Vel: 0.5447561342m/s, Area: 133425.0m², Vol: 47668.9m³

Step 28600/29999, Sim Time: 15271.764s (+5.425e-01s), Max Depth: 0.7328433791m, Max Vel: 0.5447610083m/s, Area: 133450.0m², Vol: 47664.2m³

Step 28700/29999, Sim Time: 15326.010s (+5.425e-01s), Max Depth: 0.7328447476m, Max Vel: 0.5447659290m/s, Area: 133450.0m², Vol: 47659.4m³

Step 28800/29999, Sim Time: 15380.256s (+5.425e-01s), Max Depth: 0.7328458498m, Max Vel: 0.5447670872m/s, Area: 133475.0m², Vol: 47654.7m³

Step 28900/29999, Sim Time: 15434.502s (+5.425e-01s), Max Depth: 0.7328466609m, Max Vel: 0.5447681771m/s, Area: 133450.0m², Vol: 47650.2m³

Step 29000/29999, Sim Time: 15488.748s (+5.425e-01s), Max Depth: 0.7328471007m, Max Vel: 0.5447706239m/s, Area: 133425.0m², Vol: 47646.2m³

Step 29100/29999, Sim Time: 15542.994s (+5.425e-01s), Max Depth: 0.7328470795m, Max Vel: 0.5447710400m/s, Area: 133425.0m², Vol: 47642.9m³

Step 29200/29999, Sim Time: 15597.240s (+5.425e-01s), Max Depth: 0.7328466182m, Max Vel: 0.5447704454m/s, Area: 133425.0m², Vol: 47640.0m³

Step 29300/29999, Sim Time: 15651.486s (+5.425e-01s), Max Depth: 0.7328456036m, Max Vel: 0.5447684618m/s, Area: 133450.0m², Vol: 47637.3m³

Step 29400/29999, Sim Time: 15705.732s (+5.425e-01s), Max Depth: 0.7328439782m, Max Vel: 0.5447650011m/s, Area: 133425.0m², Vol: 47634.2m³

Step 29500/29999, Sim Time: 15759.978s (+5.425e-01s), Max Depth: 0.7328393971m, Max Vel: 0.5447607582m/s, Area: 133425.0m², Vol: 47631.0m³

Step 29600/29999, Sim Time: 15814.225s (+5.425e-01s), Max Depth: 0.7328278270m, Max Vel: 0.5447415447m/s, Area: 133425.0m², Vol: 47627.7m³

Step 29700/29999, Sim Time: 15868.473s (+5.425e-01s), Max Depth: 0.7328176482m, Max Vel: 0.5447276115m/s, Area: 133425.0m², Vol: 47624.3m³

Step 29800/29999, Sim Time: 15922.721s (+5.425e-01s), Max Depth: 0.7328062850m, Max Vel: 0.5447037137m/s, Area: 133450.0m², Vol: 47621.1m³

Step 29900/29999, Sim Time: 15976.969s (+5.425e-01s), Max Depth: 0.7327965121m, Max Vel: 0.5446862334m/s, Area: 133450.0m², Vol: 47618.0m³

Step 29999/29999, Sim Time: 16030.676s (+5.425e-01s), Max Depth: 0.7327864478m, Max Vel: 0.5446601471m/s, Area: 133450.0m², Vol: 47615.2m³

Simulation finished 30000 steps in 233.53 seconds (wall clock).

Final Maximum Flood Extent Area: 137975.00 m²

Peak Recorded Water Depth Anywhere: 0.736 m

Phase 2 max depth: 0.733 m, steady state max depth: 0.734 m, rate of increase: -0.000000 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain11\_25.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain11\_25\_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 11.5625 --output-freq 100 -o result\_rain11\_5625.mp4 --save --source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 168.73 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26s. Stored steady\_state\_h.

--- Starting Phase 2: Rainfall & WSE Monitoring (30000 steps) ---

Added rainfall: rate=3.2118055555555556e-06 m/s, duration=30000 steps

Added rainfall for Phase 2: 11.5625 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337687631m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39721.2m³

Step 100/29999, Sim Time: 55.080s (+5.453e-01s), Max Depth: 0.7339731290m, Max Vel: 0.5258207505m/s, Area: 130825.0m², Vol: 39887.9m³

Step 200/29999, Sim Time: 109.607s (+5.452e-01s), Max Depth: 0.7341726262m, Max Vel: 0.5260038190m/s, Area: 130850.0m², Vol: 40053.6m³

Step 300/29999, Sim Time: 164.124s (+5.451e-01s), Max Depth: 0.7343811248m, Max Vel: 0.5262613215m/s, Area: 130850.0m², Vol: 40218.5m³

Step 400/29999, Sim Time: 218.631s (+5.450e-01s), Max Depth: 0.7345819939m, Max Vel: 0.5264197537m/s, Area: 130925.0m², Vol: 40382.9m³

Step 500/29999, Sim Time: 273.129s (+5.449e-01s), Max Depth: 0.7347735601m, Max Vel: 0.5265735824m/s, Area: 131000.0m², Vol: 40546.9m³

Step 600/29999, Sim Time: 327.619s (+5.449e-01s), Max Depth: 0.7349496615m, Max Vel: 0.5267122673m/s, Area: 131075.0m², Vol: 40710.6m³

Step 700/29999, Sim Time: 382.101s (+5.448e-01s), Max Depth: 0.7351074435m, Max Vel: 0.5268510733m/s, Area: 131075.0m², Vol: 40874.2m³

Step 800/29999, Sim Time: 436.577s (+5.447e-01s), Max Depth: 0.7352446744m, Max Vel: 0.5269929689m/s, Area: 131250.0m², Vol: 41037.9m³

Step 900/29999, Sim Time: 491.046s (+5.447e-01s), Max Depth: 0.7353610082m, Max Vel: 0.5271790972m/s, Area: 131275.0m², Vol: 41201.8m³

Step 1000/29999, Sim Time: 545.508s (+5.446e-01s), Max Depth: 0.7354543482m, Max Vel: 0.5273365745m/s, Area: 131300.0m², Vol: 41365.3m³

Step 1100/29999, Sim Time: 599.966s (+5.445e-01s), Max Depth: 0.7355235930m, Max Vel: 0.5275063186m/s, Area: 131350.0m², Vol: 41528.2m³

Step 1200/29999, Sim Time: 654.418s (+5.445e-01s), Max Depth: 0.7355688620m, Max Vel: 0.5276766061m/s, Area: 131375.0m², Vol: 41690.9m³

Step 1300/29999, Sim Time: 708.867s (+5.445e-01s), Max Depth: 0.7355915013m, Max Vel: 0.5278487309m/s, Area: 131400.0m², Vol: 41853.1m³

Step 1400/29999, Sim Time: 763.313s (+5.444e-01s), Max Depth: 0.7355924735m, Max Vel: 0.5280234338m/s, Area: 131500.0m², Vol: 42015.1m³

Step 1500/29999, Sim Time: 817.755s (+5.444e-01s), Max Depth: 0.7355728520m, Max Vel: 0.5281996565m/s, Area: 131525.0m², Vol: 42177.2m³

Step 1600/29999, Sim Time: 872.196s (+5.444e-01s), Max Depth: 0.7355338513m, Max Vel: 0.5283774926m/s, Area: 131575.0m², Vol: 42339.1m³

Step 1700/29999, Sim Time: 926.635s (+5.444e-01s), Max Depth: 0.7354776848m, Max Vel: 0.5285782400m/s, Area: 131650.0m², Vol: 42500.7m³

Step 1800/29999, Sim Time: 981.072s (+5.444e-01s), Max Depth: 0.7354068214m, Max Vel: 0.5287846279m/s, Area: 131650.0m², Vol: 42662.1m³

Step 1900/29999, Sim Time: 1035.509s (+5.444e-01s), Max Depth: 0.7353201371m, Max Vel: 0.5289820838m/s, Area: 131775.0m², Vol: 42823.0m³

Step 2000/29999, Sim Time: 1089.944s (+5.444e-01s), Max Depth: 0.7352258861m, Max Vel: 0.5292192255m/s, Area: 131800.0m², Vol: 42983.9m³

Step 2100/29999, Sim Time: 1144.379s (+5.443e-01s), Max Depth: 0.7351218182m, Max Vel: 0.5294246075m/s, Area: 131850.0m², Vol: 43144.5m³

Step 2200/29999, Sim Time: 1198.814s (+5.443e-01s), Max Depth: 0.7350037849m, Max Vel: 0.5296378353m/s, Area: 131875.0m², Vol: 43304.7m³

Step 2300/29999, Sim Time: 1253.249s (+5.444e-01s), Max Depth: 0.7348721866m, Max Vel: 0.5298429547m/s, Area: 131925.0m², Vol: 43464.5m³

Step 2400/29999, Sim Time: 1307.685s (+5.444e-01s), Max Depth: 0.7347286776m, Max Vel: 0.5300450118m/s, Area: 131950.0m², Vol: 43624.1m³

Step 2500/29999, Sim Time: 1362.122s (+5.444e-01s), Max Depth: 0.7345755281m, Max Vel: 0.5302457309m/s, Area: 132000.0m², Vol: 43783.3m³

Step 2600/29999, Sim Time: 1416.560s (+5.444e-01s), Max Depth: 0.7344148721m, Max Vel: 0.5304426489m/s, Area: 132075.0m², Vol: 43942.3m³

Step 2700/29999, Sim Time: 1471.001s (+5.444e-01s), Max Depth: 0.7342483470m, Max Vel: 0.5306352926m/s, Area: 132125.0m², Vol: 44101.3m³

Step 2800/29999, Sim Time: 1525.443s (+5.444e-01s), Max Depth: 0.7340780427m, Max Vel: 0.5308225885m/s, Area: 132125.0m², Vol: 44260.4m³

Step 2900/29999, Sim Time: 1579.888s (+5.445e-01s), Max Depth: 0.7339059433m, Max Vel: 0.5310037798m/s, Area: 132125.0m², Vol: 44419.2m³

Step 3000/29999, Sim Time: 1634.334s (+5.445e-01s), Max Depth: 0.7337336750m, Max Vel: 0.5311788702m/s, Area: 132150.0m², Vol: 44577.7m³

Step 3100/29999, Sim Time: 1688.784s (+5.445e-01s), Max Depth: 0.7335627918m, Max Vel: 0.5313482829m/s, Area: 132200.0m², Vol: 44736.1m³

Step 3200/29999, Sim Time: 1743.235s (+5.445e-01s), Max Depth: 0.7333947803m, Max Vel: 0.5315140694m/s, Area: 132250.0m², Vol: 44894.5m³

Step 3300/29999, Sim Time: 1797.689s (+5.446e-01s), Max Depth: 0.7332309893m, Max Vel: 0.5316757829m/s, Area: 132300.0m², Vol: 45053.0m³

Step 3400/29999, Sim Time: 1852.146s (+5.446e-01s), Max Depth: 0.7330722977m, Max Vel: 0.5318337410m/s, Area: 132400.0m², Vol: 45211.5m³

Step 3500/29999, Sim Time: 1906.604s (+5.446e-01s), Max Depth: 0.7329195250m, Max Vel: 0.5319892234m/s, Area: 132500.0m², Vol: 45370.5m³

Step 3600/29999, Sim Time: 1961.064s (+5.446e-01s), Max Depth: 0.7327737988m, Max Vel: 0.5321520169m/s, Area: 132500.0m², Vol: 45529.9m³

Step 3700/29999, Sim Time: 2015.526s (+5.446e-01s), Max Depth: 0.7326361205m, Max Vel: 0.5323253550m/s, Area: 132500.0m², Vol: 45689.4m³

Step 3800/29999, Sim Time: 2069.990s (+5.446e-01s), Max Depth: 0.7325063608m, Max Vel: 0.5324872582m/s, Area: 132575.0m², Vol: 45848.9m³

Step 3900/29999, Sim Time: 2124.454s (+5.446e-01s), Max Depth: 0.7323834424m, Max Vel: 0.5326501918m/s, Area: 132575.0m², Vol: 46008.3m³

Step 4000/29999, Sim Time: 2178.920s (+5.447e-01s), Max Depth: 0.7322677321m, Max Vel: 0.5328099603m/s, Area: 132550.0m², Vol: 46168.1m³

Step 4100/29999, Sim Time: 2233.386s (+5.447e-01s), Max Depth: 0.7321588914m, Max Vel: 0.5329685442m/s, Area: 132600.0m², Vol: 46328.1m³

Step 4200/29999, Sim Time: 2284.370s (+3.986e-01s), Max Depth: 0.7320631521m, Max Vel: 1.7358304061m/s, Area: 132650.0m², Vol: 46477.9m³

Step 4300/29999, Sim Time: 2298.429s (+1.380e-01s), Max Depth: 0.7320377208m, Max Vel: 9.9999999990m/s, Area: 132675.0m², Vol: 46521.5m³

Step 4400/29999, Sim Time: 2312.231s (+1.380e-01s), Max Depth: 0.7320131552m, Max Vel: 9.9999999990m/s, Area: 132725.0m², Vol: 46564.4m³

Step 4500/29999, Sim Time: 2326.032s (+1.380e-01s), Max Depth: 0.7319889826m, Max Vel: 9.9999999998m/s, Area: 132750.0m², Vol: 46610.2m³

Step 4600/29999, Sim Time: 2378.233s (+5.447e-01s), Max Depth: 0.7319012685m, Max Vel: 0.5333954120m/s, Area: 132850.0m², Vol: 46763.3m³

Step 4700/29999, Sim Time: 2432.700s (+5.447e-01s), Max Depth: 0.7318151671m, Max Vel: 0.5335551651m/s, Area: 132750.0m², Vol: 46922.0m³

Step 4800/29999, Sim Time: 2487.168s (+5.447e-01s), Max Depth: 0.7317409453m, Max Vel: 0.5337147339m/s, Area: 132775.0m², Vol: 47081.6m³

Step 4900/29999, Sim Time: 2541.634s (+5.447e-01s), Max Depth: 0.7316872800m, Max Vel: 0.5338671540m/s, Area: 132825.0m², Vol: 47241.3m³

Step 5000/29999, Sim Time: 2596.099s (+5.446e-01s), Max Depth: 0.7316531979m, Max Vel: 0.5340125433m/s, Area: 132850.0m², Vol: 47401.3m³

Step 5100/29999, Sim Time: 2650.563s (+5.446e-01s), Max Depth: 0.7316347344m, Max Vel: 0.5341533010m/s, Area: 132825.0m², Vol: 47561.5m³

Step 5200/29999, Sim Time: 2705.025s (+5.446e-01s), Max Depth: 0.7316275520m, Max Vel: 0.5342928550m/s, Area: 132800.0m², Vol: 47722.1m³

Step 5300/29999, Sim Time: 2759.484s (+5.446e-01s), Max Depth: 0.7316271701m, Max Vel: 0.5344341501m/s, Area: 132800.0m², Vol: 47882.8m³

Step 5400/29999, Sim Time: 2800.994s (+3.174e-01s), Max Depth: 0.7316290952m, Max Vel: 2.8546981060m/s, Area: 132850.0m², Vol: 48005.2m³

Step 5500/29999, Sim Time: 2828.319s (+2.404e-01s), Max Depth: 0.7316308315m, Max Vel: 4.6159820442m/s, Area: 132850.0m², Vol: 48085.7m³

Step 5600/29999, Sim Time: 2850.203s (+2.011e-01s), Max Depth: 0.7316322604m, Max Vel: 6.0342005306m/s, Area: 132875.0m², Vol: 48150.2m³

Step 5700/29999, Sim Time: 2868.985s (+1.764e-01s), Max Depth: 0.7316332871m, Max Vel: 7.2557623358m/s, Area: 132900.0m², Vol: 48205.6m³

Step 5800/29999, Sim Time: 2885.693s (+1.589e-01s), Max Depth: 0.7316339733m, Max Vel: 8.3451819209m/s, Area: 132925.0m², Vol: 48254.9m³

Step 5900/29999, Sim Time: 2900.890s (+1.457e-01s), Max Depth: 0.7316343970m, Max Vel: 9.3377004328m/s, Area: 132925.0m², Vol: 48299.8m³

Step 6000/29999, Sim Time: 2914.961s (+1.380e-01s), Max Depth: 0.7316345981m, Max Vel: 9.9999999990m/s, Area: 132925.0m², Vol: 48341.3m³

Step 6100/29999, Sim Time: 2928.763s (+1.380e-01s), Max Depth: 0.7316345745m, Max Vel: 9.9999999990m/s, Area: 132925.0m², Vol: 48382.1m³

Step 6200/29999, Sim Time: 2942.565s (+1.380e-01s), Max Depth: 0.7316343153m, Max Vel: 9.9999999990m/s, Area: 132975.0m², Vol: 48422.9m³

Step 6300/29999, Sim Time: 2956.367s (+1.380e-01s), Max Depth: 0.7316338054m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48463.7m³

Step 6400/29999, Sim Time: 2970.170s (+1.380e-01s), Max Depth: 0.7316330495m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48504.5m³

Step 6500/29999, Sim Time: 2983.972s (+1.380e-01s), Max Depth: 0.7316321368m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48545.3m³

Step 6600/29999, Sim Time: 2997.774s (+1.380e-01s), Max Depth: 0.7316313228m, Max Vel: 9.9999999990m/s, Area: 133050.0m², Vol: 48586.1m³

Step 6700/29999, Sim Time: 3011.577s (+1.380e-01s), Max Depth: 0.7316307571m, Max Vel: 9.9999999990m/s, Area: 133025.0m², Vol: 48626.9m³

Step 6800/29999, Sim Time: 3061.713s (+5.444e-01s), Max Depth: 0.7316304622m, Max Vel: 0.5353223417m/s, Area: 133050.0m², Vol: 48775.4m³

Step 6900/29999, Sim Time: 3116.154s (+5.444e-01s), Max Depth: 0.7316211163m, Max Vel: 0.5355382472m/s, Area: 133100.0m², Vol: 48936.9m³

Step 7000/29999, Sim Time: 3170.593s (+5.444e-01s), Max Depth: 0.7315598904m, Max Vel: 0.5357764013m/s, Area: 134200.0m², Vol: 49097.9m³

Step 7100/29999, Sim Time: 3225.029s (+5.444e-01s), Max Depth: 0.7315102632m, Max Vel: 0.5359338834m/s, Area: 160175.0m², Vol: 49250.4m³

Step 7200/29999, Sim Time: 3249.701s (+1.744e-01s), Max Depth: 0.7316044073m, Max Vel: 6.5723237333m/s, Area: 205050.0m², Vol: 49308.7m³

Step 7300/29999, Sim Time: 3281.099s (+1.380e-01s), Max Depth: 0.7319139360m, Max Vel: 9.9999999995m/s, Area: 286900.0m², Vol: 49346.6m³

Step 7400/29999, Sim Time: 3304.617s (+1.380e-01s), Max Depth: 0.7326104432m, Max Vel: 9.9999999996m/s, Area: 340400.0m², Vol: 49354.0m³

Step 7500/29999, Sim Time: 3323.610s (+1.380e-01s), Max Depth: 0.7331940498m, Max Vel: 9.9999999990m/s, Area: 369050.0m², Vol: 49354.5m³

Step 7600/29999, Sim Time: 3348.486s (+1.380e-01s), Max Depth: 0.7339945890m, Max Vel: 9.9999999995m/s, Area: 385400.0m², Vol: 49354.4m³

Step 7700/29999, Sim Time: 3375.500s (+1.380e-01s), Max Depth: 0.7351219007m, Max Vel: 9.9999999998m/s, Area: 393400.0m², Vol: 49353.4m³

Step 7800/29999, Sim Time: 3399.410s (+1.379e-01s), Max Depth: 0.7362297446m, Max Vel: 9.9999999999m/s, Area: 396925.0m², Vol: 49359.4m³

Step 7900/29999, Sim Time: 3430.557s (+1.379e-01s), Max Depth: 0.7375769113m, Max Vel: 9.9999999999m/s, Area: 401475.0m², Vol: 49373.6m³

Step 8000/29999, Sim Time: 3452.429s (+5.166e-01s), Max Depth: 0.7386433658m, Max Vel: 0.6985080092m/s, Area: 403700.0m², Vol: 49387.8m³

Step 8100/29999, Sim Time: 3498.392s (+3.896e-01s), Max Depth: 0.7380131960m, Max Vel: 1.8067811196m/s, Area: 411000.0m², Vol: 49162.1m³

Step 8200/29999, Sim Time: 3513.906s (+1.378e-01s), Max Depth: 0.7392987048m, Max Vel: 9.9999999990m/s, Area: 412275.0m², Vol: 49196.7m³

Step 8300/29999, Sim Time: 3527.685s (+1.378e-01s), Max Depth: 0.7391505697m, Max Vel: 9.9999999990m/s, Area: 414325.0m², Vol: 49144.0m³

Step 8400/29999, Sim Time: 3541.462s (+1.378e-01s), Max Depth: 0.7376092279m, Max Vel: 9.9999999990m/s, Area: 416875.0m², Vol: 49002.2m³

Step 8500/29999, Sim Time: 3555.238s (+1.378e-01s), Max Depth: 0.7384841511m, Max Vel: 9.9999999990m/s, Area: 418900.0m², Vol: 49041.1m³

Step 8600/29999, Sim Time: 3569.013s (+1.377e-01s), Max Depth: 0.7387423133m, Max Vel: 9.9999999990m/s, Area: 418700.0m², Vol: 49047.9m³

Step 8700/29999, Sim Time: 3582.787s (+1.377e-01s), Max Depth: 0.7383529113m, Max Vel: 9.9999999990m/s, Area: 422500.0m², Vol: 49001.0m³

Step 8800/29999, Sim Time: 3596.559s (+1.377e-01s), Max Depth: 0.7371713373m, Max Vel: 9.9999999990m/s, Area: 422500.0m², Vol: 48895.7m³

Step 8900/29999, Sim Time: 3610.330s (+1.377e-01s), Max Depth: 0.7372516179m, Max Vel: 9.9999999990m/s, Area: 423300.0m², Vol: 48859.8m³

Step 9000/29999, Sim Time: 3624.099s (+1.377e-01s), Max Depth: 0.7379228850m, Max Vel: 9.9999999990m/s, Area: 425925.0m², Vol: 48869.7m³

Step 9100/29999, Sim Time: 3637.866s (+1.377e-01s), Max Depth: 0.7383018804m, Max Vel: 9.9999999990m/s, Area: 424000.0m², Vol: 48866.3m³

Step 9200/29999, Sim Time: 3651.631s (+1.376e-01s), Max Depth: 0.7381577261m, Max Vel: 9.9999999990m/s, Area: 427450.0m², Vol: 48811.1m³

Step 9300/29999, Sim Time: 3665.394s (+1.376e-01s), Max Depth: 0.7383794455m, Max Vel: 9.9999999990m/s, Area: 427675.0m², Vol: 48768.5m³

Step 9400/29999, Sim Time: 3679.154s (+1.376e-01s), Max Depth: 0.7367184721m, Max Vel: 9.9999999990m/s, Area: 430050.0m², Vol: 48613.8m³

Step 9500/29999, Sim Time: 3692.912s (+1.376e-01s), Max Depth: 0.7366228589m, Max Vel: 9.9999999990m/s, Area: 430375.0m², Vol: 48534.4m³

Step 9600/29999, Sim Time: 3706.666s (+1.375e-01s), Max Depth: 0.7381265615m, Max Vel: 9.9999999990m/s, Area: 433400.0m², Vol: 48534.5m³

Step 9700/29999, Sim Time: 3720.416s (+1.375e-01s), Max Depth: 0.7378288790m, Max Vel: 9.9999999990m/s, Area: 433550.0m², Vol: 48395.7m³

Step 9800/29999, Sim Time: 3734.160s (+1.374e-01s), Max Depth: 0.7370422732m, Max Vel: 9.9999999990m/s, Area: 434675.0m², Vol: 48214.8m³

Step 9900/29999, Sim Time: 3747.900s (+1.374e-01s), Max Depth: 0.7372068543m, Max Vel: 9.9999999990m/s, Area: 434475.0m², Vol: 48106.7m³

Step 10000/29999, Sim Time: 3761.633s (+1.373e-01s), Max Depth: 0.7370266441m, Max Vel: 9.9999999990m/s, Area: 436100.0m², Vol: 47941.5m³

Step 10100/29999, Sim Time: 3775.361s (+1.372e-01s), Max Depth: 0.7372700249m, Max Vel: 9.9999999990m/s, Area: 439925.0m², Vol: 47787.1m³

Step 10200/29999, Sim Time: 3789.080s (+1.372e-01s), Max Depth: 0.7365360771m, Max Vel: 9.9999999990m/s, Area: 439850.0m², Vol: 47531.4m³

Step 10300/29999, Sim Time: 3802.791s (+1.371e-01s), Max Depth: 0.7367453139m, Max Vel: 9.9999999990m/s, Area: 441250.0m², Vol: 47324.5m³

Step 10400/29999, Sim Time: 3816.493s (+1.370e-01s), Max Depth: 0.7365661038m, Max Vel: 9.9999999990m/s, Area: 441500.0m², Vol: 47099.9m³

Step 10500/29999, Sim Time: 3830.187s (+1.369e-01s), Max Depth: 0.7363429875m, Max Vel: 9.9999999990m/s, Area: 442725.0m², Vol: 46918.1m³

Step 10600/29999, Sim Time: 3843.873s (+1.368e-01s), Max Depth: 0.7357463734m, Max Vel: 9.9999999990m/s, Area: 443100.0m², Vol: 46724.9m³

Step 10700/29999, Sim Time: 3857.552s (+1.368e-01s), Max Depth: 0.7370980830m, Max Vel: 9.9999999990m/s, Area: 443625.0m², Vol: 46642.4m³

Step 10800/29999, Sim Time: 3871.223s (+1.367e-01s), Max Depth: 0.7372429001m, Max Vel: 9.9999999990m/s, Area: 446250.0m², Vol: 46455.6m³

Step 10900/29999, Sim Time: 3884.886s (+1.366e-01s), Max Depth: 0.7365034282m, Max Vel: 9.9999999990m/s, Area: 447975.0m², Vol: 46226.5m³

Step 11000/29999, Sim Time: 3898.541s (+1.365e-01s), Max Depth: 0.7358908584m, Max Vel: 9.9999999990m/s, Area: 448550.0m², Vol: 46067.4m³

Step 11100/29999, Sim Time: 3912.191s (+1.365e-01s), Max Depth: 0.7353778995m, Max Vel: 9.9999999990m/s, Area: 448975.0m², Vol: 45980.5m³

Step 11200/29999, Sim Time: 3925.837s (+1.364e-01s), Max Depth: 0.7359362629m, Max Vel: 9.9999999990m/s, Area: 450575.0m², Vol: 45937.2m³

Step 11300/29999, Sim Time: 3939.478s (+1.364e-01s), Max Depth: 0.7365327211m, Max Vel: 9.9999999990m/s, Area: 450000.0m², Vol: 45858.1m³

Step 11400/29999, Sim Time: 3953.113s (+1.363e-01s), Max Depth: 0.7360450084m, Max Vel: 9.9999999990m/s, Area: 452400.0m², Vol: 45722.1m³

Step 11500/29999, Sim Time: 3966.742s (+1.363e-01s), Max Depth: 0.7360667960m, Max Vel: 9.9999999990m/s, Area: 454375.0m², Vol: 45624.8m³

Step 11600/29999, Sim Time: 3980.366s (+1.362e-01s), Max Depth: 0.7353598968m, Max Vel: 9.9999999990m/s, Area: 455275.0m², Vol: 45493.6m³

Step 11700/29999, Sim Time: 3993.985s (+1.362e-01s), Max Depth: 0.7362455141m, Max Vel: 9.9999999990m/s, Area: 456300.0m², Vol: 45505.8m³

Step 11800/29999, Sim Time: 4007.602s (+1.361e-01s), Max Depth: 0.7362984373m, Max Vel: 9.9999999990m/s, Area: 458775.0m², Vol: 45463.2m³

Step 11900/29999, Sim Time: 4021.214s (+1.361e-01s), Max Depth: 0.7359859418m, Max Vel: 9.9999999990m/s, Area: 458950.0m², Vol: 45369.7m³

Step 12000/29999, Sim Time: 4034.822s (+1.361e-01s), Max Depth: 0.7359633713m, Max Vel: 9.9999999990m/s, Area: 461825.0m², Vol: 45297.0m³

Step 12100/29999, Sim Time: 4048.425s (+1.360e-01s), Max Depth: 0.7351085029m, Max Vel: 9.9999999990m/s, Area: 461725.0m², Vol: 45189.0m³

Step 12200/29999, Sim Time: 4062.025s (+1.360e-01s), Max Depth: 0.7353355584m, Max Vel: 9.9999999990m/s, Area: 464425.0m², Vol: 45147.8m³

Step 12300/29999, Sim Time: 4075.621s (+1.359e-01s), Max Depth: 0.7355545750m, Max Vel: 9.9999999990m/s, Area: 466975.0m², Vol: 45105.2m³

Step 12400/29999, Sim Time: 4089.213s (+1.359e-01s), Max Depth: 0.7358452954m, Max Vel: 9.9999999990m/s, Area: 465225.0m², Vol: 45067.1m³

Step 12500/29999, Sim Time: 4102.801s (+1.359e-01s), Max Depth: 0.7350512304m, Max Vel: 9.9999999990m/s, Area: 465175.0m², Vol: 44980.1m³

Step 12600/29999, Sim Time: 4116.386s (+1.358e-01s), Max Depth: 0.7353846629m, Max Vel: 9.9999999990m/s, Area: 467800.0m², Vol: 44973.5m³

Step 12700/29999, Sim Time: 4129.969s (+1.358e-01s), Max Depth: 0.7342269983m, Max Vel: 9.9999999990m/s, Area: 467625.0m², Vol: 44887.4m³

Step 12800/29999, Sim Time: 4143.549s (+1.358e-01s), Max Depth: 0.7350561237m, Max Vel: 9.9999999990m/s, Area: 468475.0m², Vol: 44925.9m³

Step 12900/29999, Sim Time: 4157.127s (+1.358e-01s), Max Depth: 0.7350004731m, Max Vel: 9.9999999990m/s, Area: 471425.0m², Vol: 44912.7m³

Step 13000/29999, Sim Time: 4170.703s (+1.357e-01s), Max Depth: 0.7345148577m, Max Vel: 9.9999999990m/s, Area: 471450.0m², Vol: 44877.4m³

Step 13100/29999, Sim Time: 4184.276s (+1.357e-01s), Max Depth: 0.7346507318m, Max Vel: 9.9999999990m/s, Area: 472375.0m², Vol: 44878.8m³

Step 13200/29999, Sim Time: 4197.847s (+1.357e-01s), Max Depth: 0.7344432111m, Max Vel: 9.9999999990m/s, Area: 475525.0m², Vol: 44852.0m³

Step 13300/29999, Sim Time: 4211.416s (+1.357e-01s), Max Depth: 0.7347656919m, Max Vel: 9.9999999990m/s, Area: 475025.0m², Vol: 44843.6m³

Step 13400/29999, Sim Time: 4224.982s (+1.356e-01s), Max Depth: 0.7340753038m, Max Vel: 9.9999999990m/s, Area: 476850.0m², Vol: 44776.2m³

Step 13500/29999, Sim Time: 4238.545s (+1.356e-01s), Max Depth: 0.7350195963m, Max Vel: 9.9999999990m/s, Area: 477600.0m², Vol: 44809.3m³

Step 13600/29999, Sim Time: 4252.104s (+1.356e-01s), Max Depth: 0.7342783249m, Max Vel: 9.9999999990m/s, Area: 477200.0m², Vol: 44737.0m³

Step 13700/29999, Sim Time: 4265.662s (+1.356e-01s), Max Depth: 0.7341303377m, Max Vel: 9.9999999990m/s, Area: 477950.0m², Vol: 44709.2m³

Step 13800/29999, Sim Time: 4279.217s (+1.355e-01s), Max Depth: 0.7335303422m, Max Vel: 9.9999999990m/s, Area: 478525.0m², Vol: 44666.4m³

Step 13900/29999, Sim Time: 4292.770s (+1.355e-01s), Max Depth: 0.7346350552m, Max Vel: 9.9999999990m/s, Area: 480425.0m², Vol: 44728.2m³

Step 14000/29999, Sim Time: 4306.320s (+1.355e-01s), Max Depth: 0.7332052243m, Max Vel: 9.9999999990m/s, Area: 479925.0m², Vol: 44656.3m³

Step 14100/29999, Sim Time: 4319.870s (+1.355e-01s), Max Depth: 0.7343450381m, Max Vel: 9.9999999990m/s, Area: 481750.0m², Vol: 44754.1m³

Step 14200/29999, Sim Time: 4333.419s (+1.355e-01s), Max Depth: 0.7339805020m, Max Vel: 9.9999999990m/s, Area: 481650.0m², Vol: 44765.9m³

Step 14300/29999, Sim Time: 4346.967s (+1.355e-01s), Max Depth: 0.7342486639m, Max Vel: 9.9999999990m/s, Area: 485150.0m², Vol: 44826.6m³

Step 14400/29999, Sim Time: 4360.515s (+1.355e-01s), Max Depth: 0.7342736641m, Max Vel: 9.9999999990m/s, Area: 484525.0m², Vol: 44878.7m³

Step 14500/29999, Sim Time: 4374.063s (+1.355e-01s), Max Depth: 0.7330975054m, Max Vel: 9.9999999990m/s, Area: 483775.0m², Vol: 44858.6m³

Step 14600/29999, Sim Time: 4387.610s (+1.355e-01s), Max Depth: 0.7335581629m, Max Vel: 9.9999999990m/s, Area: 485950.0m², Vol: 44934.2m³

Step 14700/29999, Sim Time: 4401.158s (+1.355e-01s), Max Depth: 0.7336577757m, Max Vel: 9.9999999990m/s, Area: 487875.0m², Vol: 44995.1m³

Step 14800/29999, Sim Time: 4414.706s (+1.355e-01s), Max Depth: 0.7327217798m, Max Vel: 9.9999999990m/s, Area: 485600.0m², Vol: 44980.2m³

Step 14900/29999, Sim Time: 4428.253s (+1.355e-01s), Max Depth: 0.7326488084m, Max Vel: 9.9999999990m/s, Area: 488175.0m², Vol: 45006.6m³

Step 15000/29999, Sim Time: 4441.799s (+1.355e-01s), Max Depth: 0.7328203198m, Max Vel: 9.9999999990m/s, Area: 488975.0m², Vol: 45052.1m³

Step 15100/29999, Sim Time: 4455.346s (+1.355e-01s), Max Depth: 0.7326276817m, Max Vel: 9.9999999990m/s, Area: 488425.0m², Vol: 45075.2m³

Step 15200/29999, Sim Time: 4468.891s (+1.355e-01s), Max Depth: 0.7332751115m, Max Vel: 9.9999999990m/s, Area: 490150.0m², Vol: 45150.3m³

Step 15300/29999, Sim Time: 4482.437s (+1.355e-01s), Max Depth: 0.7322677046m, Max Vel: 9.9999999990m/s, Area: 490800.0m², Vol: 45128.5m³

Step 15400/29999, Sim Time: 4495.981s (+1.354e-01s), Max Depth: 0.7324395681m, Max Vel: 9.9999999990m/s, Area: 491225.0m², Vol: 45177.0m³

Step 15500/29999, Sim Time: 4509.526s (+1.354e-01s), Max Depth: 0.7319842713m, Max Vel: 9.9999999990m/s, Area: 493850.0m², Vol: 45201.6m³

Step 15600/29999, Sim Time: 4523.071s (+1.354e-01s), Max Depth: 0.7320098621m, Max Vel: 9.9999999990m/s, Area: 495100.0m², Vol: 45249.5m³

Step 15700/29999, Sim Time: 4536.615s (+1.354e-01s), Max Depth: 0.7328037506m, Max Vel: 9.9999999990m/s, Area: 494050.0m², Vol: 45338.9m³

Step 15800/29999, Sim Time: 4550.160s (+1.354e-01s), Max Depth: 0.7326254267m, Max Vel: 9.9999999990m/s, Area: 496575.0m², Vol: 45369.2m³

Step 15900/29999, Sim Time: 4563.704s (+1.354e-01s), Max Depth: 0.7332197115m, Max Vel: 9.9999999990m/s, Area: 497250.0m², Vol: 45444.5m³

Step 16000/29999, Sim Time: 4577.248s (+1.354e-01s), Max Depth: 0.7328159479m, Max Vel: 9.9999999990m/s, Area: 496875.0m², Vol: 45460.2m³

Step 16100/29999, Sim Time: 4590.791s (+1.354e-01s), Max Depth: 0.7323504061m, Max Vel: 9.9999999990m/s, Area: 499300.0m², Vol: 45480.0m³

Step 16200/29999, Sim Time: 4604.335s (+1.354e-01s), Max Depth: 0.7323032063m, Max Vel: 9.9999999990m/s, Area: 501375.0m², Vol: 45518.3m³

Step 16300/29999, Sim Time: 4617.878s (+1.354e-01s), Max Depth: 0.7316417796m, Max Vel: 9.9999999990m/s, Area: 501425.0m², Vol: 45499.7m³

Step 16400/29999, Sim Time: 4631.421s (+1.354e-01s), Max Depth: 0.7328714709m, Max Vel: 9.9999999990m/s, Area: 502000.0m², Vol: 45618.0m³

Step 16500/29999, Sim Time: 4644.963s (+1.354e-01s), Max Depth: 0.7319056524m, Max Vel: 9.9999999990m/s, Area: 502125.0m², Vol: 45609.3m³

Step 16600/29999, Sim Time: 4658.505s (+1.354e-01s), Max Depth: 0.7318237580m, Max Vel: 9.9999999990m/s, Area: 500900.0m², Vol: 45625.9m³

Step 16700/29999, Sim Time: 4672.047s (+1.354e-01s), Max Depth: 0.7313814941m, Max Vel: 9.9999999990m/s, Area: 505025.0m², Vol: 45639.4m³

Step 16800/29999, Sim Time: 4685.588s (+1.354e-01s), Max Depth: 0.7312867237m, Max Vel: 9.9999999990m/s, Area: 504775.0m², Vol: 45682.0m³

Step 16900/29999, Sim Time: 4699.130s (+1.354e-01s), Max Depth: 0.7314810543m, Max Vel: 9.9999999990m/s, Area: 504925.0m², Vol: 45732.7m³

Step 17000/29999, Sim Time: 4712.671s (+1.354e-01s), Max Depth: 0.7322320837m, Max Vel: 9.9999999990m/s, Area: 506700.0m², Vol: 45819.7m³

Step 17100/29999, Sim Time: 4726.211s (+1.354e-01s), Max Depth: 0.7318879539m, Max Vel: 9.9999999990m/s, Area: 508250.0m², Vol: 45833.1m³

Step 17200/29999, Sim Time: 4739.751s (+1.354e-01s), Max Depth: 0.7318886229m, Max Vel: 9.9999999990m/s, Area: 507250.0m², Vol: 45876.2m³

Step 17300/29999, Sim Time: 4753.291s (+1.354e-01s), Max Depth: 0.7312987214m, Max Vel: 9.9999999990m/s, Area: 508875.0m², Vol: 45886.0m³

Step 17400/29999, Sim Time: 4766.831s (+1.354e-01s), Max Depth: 0.7314246476m, Max Vel: 9.9999999990m/s, Area: 509225.0m², Vol: 45933.5m³

Step 17500/29999, Sim Time: 4780.371s (+1.354e-01s), Max Depth: 0.7307455066m, Max Vel: 9.9999999990m/s, Area: 508950.0m², Vol: 45932.8m³

Step 17600/29999, Sim Time: 4793.910s (+1.354e-01s), Max Depth: 0.7318226130m, Max Vel: 9.9999999990m/s, Area: 509925.0m², Vol: 46037.8m³

Step 17700/29999, Sim Time: 4807.449s (+1.354e-01s), Max Depth: 0.7306215591m, Max Vel: 9.9999999990m/s, Area: 510100.0m², Vol: 45990.8m³

Step 17800/29999, Sim Time: 4820.987s (+1.354e-01s), Max Depth: 0.7314067060m, Max Vel: 9.9999999990m/s, Area: 511750.0m², Vol: 46080.3m³

Step 17900/29999, Sim Time: 4834.524s (+1.354e-01s), Max Depth: 0.7301577146m, Max Vel: 9.9999999990m/s, Area: 511000.0m², Vol: 46024.5m³

Step 18000/29999, Sim Time: 4848.061s (+1.354e-01s), Max Depth: 0.7315219388m, Max Vel: 9.9999999990m/s, Area: 511275.0m², Vol: 46140.7m³

Step 18100/29999, Sim Time: 4861.596s (+1.353e-01s), Max Depth: 0.7302582908m, Max Vel: 9.9999999990m/s, Area: 512850.0m², Vol: 46075.7m³

Step 18200/29999, Sim Time: 4875.130s (+1.353e-01s), Max Depth: 0.7312105937m, Max Vel: 9.9999999990m/s, Area: 513375.0m², Vol: 46141.4m³

Step 18300/29999, Sim Time: 4888.663s (+1.353e-01s), Max Depth: 0.7312018850m, Max Vel: 9.9999999990m/s, Area: 515500.0m², Vol: 46152.2m³

Step 18400/29999, Sim Time: 4902.193s (+1.353e-01s), Max Depth: 0.7300185984m, Max Vel: 9.9999999990m/s, Area: 515125.0m², Vol: 46084.5m³

Step 18500/29999, Sim Time: 4915.722s (+1.353e-01s), Max Depth: 0.7295755265m, Max Vel: 9.9999999990m/s, Area: 517850.0m², Vol: 46071.4m³

Step 18600/29999, Sim Time: 4929.249s (+1.353e-01s), Max Depth: 0.7303962166m, Max Vel: 9.9999999990m/s, Area: 514525.0m², Vol: 46130.7m³

Step 18700/29999, Sim Time: 4942.775s (+1.352e-01s), Max Depth: 0.7306675172m, Max Vel: 9.9999999990m/s, Area: 516925.0m², Vol: 46165.0m³

Step 18800/29999, Sim Time: 4956.299s (+1.352e-01s), Max Depth: 0.7309007102m, Max Vel: 9.9999999990m/s, Area: 517875.0m², Vol: 46212.6m³

Step 18900/29999, Sim Time: 4969.821s (+1.352e-01s), Max Depth: 0.7301802593m, Max Vel: 9.9999999990m/s, Area: 517900.0m², Vol: 46200.9m³

Step 19000/29999, Sim Time: 4983.342s (+1.352e-01s), Max Depth: 0.7300204107m, Max Vel: 9.9999999990m/s, Area: 518050.0m², Vol: 46219.4m³

Step 19100/29999, Sim Time: 4996.862s (+1.352e-01s), Max Depth: 0.7301702120m, Max Vel: 9.9999999990m/s, Area: 520100.0m², Vol: 46258.9m³

Step 19200/29999, Sim Time: 5010.381s (+1.352e-01s), Max Depth: 0.7288568802m, Max Vel: 9.9999999990m/s, Area: 519025.0m², Vol: 46224.0m³

Step 19300/29999, Sim Time: 5023.898s (+1.352e-01s), Max Depth: 0.7285860176m, Max Vel: 9.9999999990m/s, Area: 519950.0m², Vol: 46240.0m³

Step 19400/29999, Sim Time: 5037.414s (+1.352e-01s), Max Depth: 0.7288110226m, Max Vel: 9.9999999990m/s, Area: 520000.0m², Vol: 46296.6m³

Step 19500/29999, Sim Time: 5050.929s (+1.351e-01s), Max Depth: 0.7287409871m, Max Vel: 9.9999999990m/s, Area: 520875.0m², Vol: 46301.2m³

Step 19600/29999, Sim Time: 5064.442s (+1.351e-01s), Max Depth: 0.7308393689m, Max Vel: 9.9999999990m/s, Area: 521075.0m², Vol: 46437.8m³

Step 19700/29999, Sim Time: 5077.952s (+1.351e-01s), Max Depth: 0.7297737878m, Max Vel: 9.9999999990m/s, Area: 521725.0m², Vol: 46385.3m³

Step 19800/29999, Sim Time: 5091.460s (+1.351e-01s), Max Depth: 0.7290346670m, Max Vel: 9.9999999990m/s, Area: 521550.0m², Vol: 46322.1m³

Step 19900/29999, Sim Time: 5104.966s (+1.350e-01s), Max Depth: 0.7291858319m, Max Vel: 9.9999999990m/s, Area: 523075.0m², Vol: 46345.6m³

Step 20000/29999, Sim Time: 5118.469s (+1.350e-01s), Max Depth: 0.7310063435m, Max Vel: 9.9999999990m/s, Area: 523000.0m², Vol: 46452.4m³

Step 20100/29999, Sim Time: 5131.968s (+1.350e-01s), Max Depth: 0.7286776783m, Max Vel: 9.9999999990m/s, Area: 522275.0m², Vol: 46234.1m³

Step 20200/29999, Sim Time: 5145.461s (+1.349e-01s), Max Depth: 0.7291671137m, Max Vel: 9.9999999990m/s, Area: 524800.0m², Vol: 46134.4m³

Step 20300/29999, Sim Time: 5158.947s (+1.348e-01s), Max Depth: 0.7286941343m, Max Vel: 9.9999999990m/s, Area: 524975.0m², Vol: 45957.2m³

Step 20400/29999, Sim Time: 5172.424s (+1.347e-01s), Max Depth: 0.7309122723m, Max Vel: 9.9999999990m/s, Area: 524775.0m², Vol: 45918.2m³

Step 20500/29999, Sim Time: 5185.892s (+1.346e-01s), Max Depth: 0.7287048428m, Max Vel: 9.9999999990m/s, Area: 525925.0m², Vol: 45548.5m³

Step 20600/29999, Sim Time: 5199.348s (+1.345e-01s), Max Depth: 0.7291263057m, Max Vel: 9.9999999990m/s, Area: 526175.0m², Vol: 45373.5m³

Step 20700/29999, Sim Time: 5212.795s (+1.344e-01s), Max Depth: 0.7310834068m, Max Vel: 9.9999999990m/s, Area: 528300.0m², Vol: 45324.0m³

Step 20800/29999, Sim Time: 5226.234s (+1.343e-01s), Max Depth: 0.7296816451m, Max Vel: 9.9999999990m/s, Area: 527950.0m², Vol: 45112.6m³

Step 20900/29999, Sim Time: 5239.666s (+1.343e-01s), Max Depth: 0.7293113365m, Max Vel: 9.9999999990m/s, Area: 529800.0m², Vol: 44997.7m³

Step 21000/29999, Sim Time: 5253.091s (+1.342e-01s), Max Depth: 0.7287377742m, Max Vel: 9.9999999990m/s, Area: 529000.0m², Vol: 44867.2m³

Step 21100/29999, Sim Time: 5266.509s (+1.342e-01s), Max Depth: 0.7288114493m, Max Vel: 9.9999999990m/s, Area: 527500.0m², Vol: 44790.6m³

Step 21200/29999, Sim Time: 5279.922s (+1.341e-01s), Max Depth: 0.7299466774m, Max Vel: 9.9999999990m/s, Area: 528575.0m², Vol: 44825.0m³

Step 21300/29999, Sim Time: 5293.332s (+1.341e-01s), Max Depth: 0.7311698903m, Max Vel: 9.9999999990m/s, Area: 528225.0m², Vol: 44893.9m³

Step 21400/29999, Sim Time: 5306.737s (+1.340e-01s), Max Depth: 0.7285434257m, Max Vel: 9.9999999990m/s, Area: 529450.0m², Vol: 44722.1m³

Step 21500/29999, Sim Time: 5320.139s (+1.340e-01s), Max Depth: 0.7309553271m, Max Vel: 9.9999999990m/s, Area: 529825.0m², Vol: 44855.9m³

Step 21600/29999, Sim Time: 5333.537s (+1.340e-01s), Max Depth: 0.7306509152m, Max Vel: 9.9999999990m/s, Area: 530200.0m², Vol: 44814.9m³

Step 21700/29999, Sim Time: 5346.931s (+1.339e-01s), Max Depth: 0.7295526271m, Max Vel: 9.9999999990m/s, Area: 529725.0m², Vol: 44746.9m³

Step 21800/29999, Sim Time: 5360.323s (+1.339e-01s), Max Depth: 0.7286417103m, Max Vel: 9.9999999990m/s, Area: 531000.0m², Vol: 44737.7m³

Step 21900/29999, Sim Time: 5373.714s (+1.339e-01s), Max Depth: 0.7295260738m, Max Vel: 9.9999999990m/s, Area: 530800.0m², Vol: 44844.1m³

Step 22000/29999, Sim Time: 5387.103s (+1.339e-01s), Max Depth: 0.7297590446m, Max Vel: 9.9999999990m/s, Area: 532225.0m², Vol: 44849.0m³

Step 22100/29999, Sim Time: 5400.488s (+1.338e-01s), Max Depth: 0.7306877616m, Max Vel: 9.9999999990m/s, Area: 532000.0m², Vol: 44880.8m³

Step 22200/29999, Sim Time: 5413.870s (+1.338e-01s), Max Depth: 0.7295393026m, Max Vel: 9.9999999990m/s, Area: 531475.0m², Vol: 44828.7m³

Step 22300/29999, Sim Time: 5427.250s (+1.338e-01s), Max Depth: 0.7299719828m, Max Vel: 9.9999999990m/s, Area: 531900.0m², Vol: 44866.8m³

Step 22400/29999, Sim Time: 5440.628s (+1.338e-01s), Max Depth: 0.7288318896m, Max Vel: 9.9999999990m/s, Area: 535375.0m², Vol: 44801.2m³

Step 22500/29999, Sim Time: 5454.002s (+1.337e-01s), Max Depth: 0.7295251557m, Max Vel: 9.9999999990m/s, Area: 534125.0m², Vol: 44843.3m³

Step 22600/29999, Sim Time: 5467.374s (+1.337e-01s), Max Depth: 0.7286508239m, Max Vel: 9.9999999990m/s, Area: 535675.0m², Vol: 44768.3m³

Step 22700/29999, Sim Time: 5480.742s (+1.337e-01s), Max Depth: 0.7314824636m, Max Vel: 9.9999999990m/s, Area: 535475.0m², Vol: 44900.9m³

Step 22800/29999, Sim Time: 5494.107s (+1.336e-01s), Max Depth: 0.7285889123m, Max Vel: 9.9999999990m/s, Area: 536675.0m², Vol: 44718.6m³

Step 22900/29999, Sim Time: 5507.468s (+1.336e-01s), Max Depth: 0.7300943801m, Max Vel: 9.9999999990m/s, Area: 537525.0m², Vol: 44815.5m³

Step 23000/29999, Sim Time: 5520.828s (+1.336e-01s), Max Depth: 0.7295557895m, Max Vel: 9.9999999990m/s, Area: 537150.0m², Vol: 44793.2m³

Step 23100/29999, Sim Time: 5534.185s (+1.336e-01s), Max Depth: 0.7302358413m, Max Vel: 9.9999999990m/s, Area: 537350.0m², Vol: 44865.5m³

Step 23200/29999, Sim Time: 5547.541s (+1.335e-01s), Max Depth: 0.7287679400m, Max Vel: 9.9999999990m/s, Area: 540550.0m², Vol: 44799.1m³

Step 23300/29999, Sim Time: 5560.895s (+1.335e-01s), Max Depth: 0.7288954158m, Max Vel: 9.9999999990m/s, Area: 540000.0m², Vol: 44833.1m³

Step 23400/29999, Sim Time: 5574.247s (+1.335e-01s), Max Depth: 0.7308394990m, Max Vel: 9.9999999990m/s, Area: 540475.0m², Vol: 44947.0m³

Step 23500/29999, Sim Time: 5587.596s (+1.335e-01s), Max Depth: 0.7311153756m, Max Vel: 9.9999999990m/s, Area: 539875.0m², Vol: 44974.0m³

Step 23600/29999, Sim Time: 5600.944s (+1.335e-01s), Max Depth: 0.7305663906m, Max Vel: 9.9999999990m/s, Area: 540475.0m², Vol: 44945.6m³

Step 23700/29999, Sim Time: 5614.288s (+1.334e-01s), Max Depth: 0.7290983380m, Max Vel: 9.9999999990m/s, Area: 540850.0m², Vol: 44844.2m³

Step 23800/29999, Sim Time: 5627.630s (+1.334e-01s), Max Depth: 0.7294879172m, Max Vel: 9.9999999990m/s, Area: 540200.0m², Vol: 44848.1m³

Step 23900/29999, Sim Time: 5640.967s (+1.334e-01s), Max Depth: 0.7306815081m, Max Vel: 9.9999999990m/s, Area: 542025.0m², Vol: 44872.7m³

Step 24000/29999, Sim Time: 5654.301s (+1.333e-01s), Max Depth: 0.7285226187m, Max Vel: 9.9999999990m/s, Area: 540750.0m², Vol: 44706.5m³

Step 24100/29999, Sim Time: 5667.631s (+1.333e-01s), Max Depth: 0.7302736735m, Max Vel: 9.9999999990m/s, Area: 541425.0m², Vol: 44802.1m³

Step 24200/29999, Sim Time: 5680.958s (+1.333e-01s), Max Depth: 0.7308274445m, Max Vel: 9.9999999990m/s, Area: 541075.0m², Vol: 44827.5m³

Step 24300/29999, Sim Time: 5694.281s (+1.332e-01s), Max Depth: 0.7287722496m, Max Vel: 9.9999999990m/s, Area: 542925.0m², Vol: 44673.4m³

Step 24400/29999, Sim Time: 5707.601s (+1.332e-01s), Max Depth: 0.7301674553m, Max Vel: 9.9999999990m/s, Area: 542325.0m², Vol: 44732.1m³

Step 24500/29999, Sim Time: 5720.917s (+1.331e-01s), Max Depth: 0.7291967512m, Max Vel: 9.9999999990m/s, Area: 544500.0m², Vol: 44659.0m³

Step 24600/29999, Sim Time: 5734.230s (+1.331e-01s), Max Depth: 0.7293574896m, Max Vel: 9.9999999990m/s, Area: 544475.0m², Vol: 44659.5m³

Step 24700/29999, Sim Time: 5747.540s (+1.331e-01s), Max Depth: 0.7308316481m, Max Vel: 9.9999999990m/s, Area: 546175.0m², Vol: 44733.3m³

Step 24800/29999, Sim Time: 5760.846s (+1.330e-01s), Max Depth: 0.7289340565m, Max Vel: 9.9999999990m/s, Area: 546175.0m², Vol: 44600.5m³

Step 24900/29999, Sim Time: 5774.149s (+1.330e-01s), Max Depth: 0.7310373627m, Max Vel: 9.9999999990m/s, Area: 547275.0m², Vol: 44697.9m³

Step 25000/29999, Sim Time: 5787.447s (+1.330e-01s), Max Depth: 0.7309240003m, Max Vel: 9.9999999990m/s, Area: 545750.0m², Vol: 44653.4m³

Step 25100/29999, Sim Time: 5800.741s (+1.329e-01s), Max Depth: 0.7305172407m, Max Vel: 9.9999999990m/s, Area: 546150.0m², Vol: 44572.5m³

Step 25200/29999, Sim Time: 5814.029s (+1.329e-01s), Max Depth: 0.7309407978m, Max Vel: 9.9999999990m/s, Area: 546850.0m², Vol: 44539.0m³

Step 25300/29999, Sim Time: 5827.311s (+1.328e-01s), Max Depth: 0.7302022495m, Max Vel: 9.9999999990m/s, Area: 548100.0m², Vol: 44443.5m³

Step 25400/29999, Sim Time: 5840.589s (+1.328e-01s), Max Depth: 0.7295863935m, Max Vel: 9.9999999990m/s, Area: 547250.0m², Vol: 44389.7m³

Step 25500/29999, Sim Time: 5853.862s (+1.327e-01s), Max Depth: 0.7295277985m, Max Vel: 9.9999999990m/s, Area: 547525.0m², Vol: 44370.7m³

Step 25600/29999, Sim Time: 5867.132s (+1.327e-01s), Max Depth: 0.7293192694m, Max Vel: 9.9999999990m/s, Area: 547375.0m², Vol: 44344.5m³

Step 25700/29999, Sim Time: 5880.396s (+1.326e-01s), Max Depth: 0.7291802544m, Max Vel: 9.9999999990m/s, Area: 548925.0m², Vol: 44305.8m³

Step 25800/29999, Sim Time: 5893.655s (+1.326e-01s), Max Depth: 0.7313568806m, Max Vel: 9.9999999990m/s, Area: 547400.0m², Vol: 44411.3m³

Step 25900/29999, Sim Time: 5906.910s (+1.325e-01s), Max Depth: 0.7301611316m, Max Vel: 9.9999999990m/s, Area: 549900.0m², Vol: 44340.7m³

Step 26000/29999, Sim Time: 5920.161s (+1.325e-01s), Max Depth: 0.7303837242m, Max Vel: 9.9999999990m/s, Area: 549775.0m², Vol: 44373.7m³

Step 26100/29999, Sim Time: 5933.409s (+1.325e-01s), Max Depth: 0.7290828298m, Max Vel: 9.9999999990m/s, Area: 550250.0m², Vol: 44323.5m³

Step 26200/29999, Sim Time: 5946.655s (+1.324e-01s), Max Depth: 0.7290398259m, Max Vel: 9.9999999990m/s, Area: 551100.0m², Vol: 44381.4m³

Step 26300/29999, Sim Time: 5959.899s (+1.324e-01s), Max Depth: 0.7292287723m, Max Vel: 9.9999999990m/s, Area: 551800.0m², Vol: 44442.5m³

Step 26400/29999, Sim Time: 5973.140s (+1.324e-01s), Max Depth: 0.7286700302m, Max Vel: 9.9999999990m/s, Area: 551150.0m², Vol: 44466.2m³

Step 26500/29999, Sim Time: 5986.380s (+1.324e-01s), Max Depth: 0.7294919306m, Max Vel: 9.9999999990m/s, Area: 552000.0m², Vol: 44534.6m³

Step 26600/29999, Sim Time: 5999.616s (+1.324e-01s), Max Depth: 0.7296955762m, Max Vel: 9.9999999990m/s, Area: 551725.0m², Vol: 44580.4m³

Step 26700/29999, Sim Time: 6012.850s (+1.323e-01s), Max Depth: 0.7299695572m, Max Vel: 9.9999999990m/s, Area: 553450.0m², Vol: 44638.6m³

Step 26800/29999, Sim Time: 6026.083s (+1.323e-01s), Max Depth: 0.7293340161m, Max Vel: 9.9999999990m/s, Area: 551825.0m², Vol: 44664.9m³

Step 26900/29999, Sim Time: 6039.312s (+1.323e-01s), Max Depth: 0.7294863072m, Max Vel: 9.9999999990m/s, Area: 552800.0m², Vol: 44686.8m³

Step 27000/29999, Sim Time: 6052.538s (+1.323e-01s), Max Depth: 0.7300880714m, Max Vel: 9.9999999990m/s, Area: 552950.0m², Vol: 44818.1m³

Step 27100/29999, Sim Time: 6065.766s (+1.323e-01s), Max Depth: 0.7289515355m, Max Vel: 9.9999999990m/s, Area: 553450.0m², Vol: 44891.2m³

Step 27200/29999, Sim Time: 6078.991s (+1.322e-01s), Max Depth: 0.7306608915m, Max Vel: 9.9999999990m/s, Area: 552750.0m², Vol: 44940.3m³

Step 27300/29999, Sim Time: 6092.210s (+1.322e-01s), Max Depth: 0.7308999983m, Max Vel: 9.9999999990m/s, Area: 553500.0m², Vol: 44922.3m³

Step 27400/29999, Sim Time: 6105.426s (+1.322e-01s), Max Depth: 0.7287741219m, Max Vel: 9.9999999990m/s, Area: 553725.0m², Vol: 44880.9m³

Step 27500/29999, Sim Time: 6118.641s (+1.321e-01s), Max Depth: 0.7308405056m, Max Vel: 9.9999999990m/s, Area: 552625.0m², Vol: 44996.6m³

Step 27600/29999, Sim Time: 6131.848s (+1.320e-01s), Max Depth: 0.7305439130m, Max Vel: 9.9999999990m/s, Area: 553325.0m², Vol: 44800.5m³

Step 27700/29999, Sim Time: 6145.047s (+1.320e-01s), Max Depth: 0.7287009617m, Max Vel: 9.9999999990m/s, Area: 555000.0m², Vol: 44630.1m³

Step 27800/29999, Sim Time: 6158.243s (+1.320e-01s), Max Depth: 0.7298028668m, Max Vel: 9.9999999990m/s, Area: 554675.0m², Vol: 44782.9m³

Step 27900/29999, Sim Time: 6171.437s (+1.319e-01s), Max Depth: 0.7301466097m, Max Vel: 9.9999999990m/s, Area: 554300.0m², Vol: 44761.2m³

Step 28000/29999, Sim Time: 6184.622s (+1.318e-01s), Max Depth: 0.7297077079m, Max Vel: 9.9999999990m/s, Area: 554375.0m², Vol: 44532.8m³

Step 28100/29999, Sim Time: 6197.798s (+1.317e-01s), Max Depth: 0.7303384584m, Max Vel: 9.9999999990m/s, Area: 554750.0m², Vol: 44500.5m³

Step 28200/29999, Sim Time: 6210.969s (+1.317e-01s), Max Depth: 0.7296219495m, Max Vel: 9.9999999990m/s, Area: 555375.0m², Vol: 44391.8m³

Step 28300/29999, Sim Time: 6224.134s (+1.316e-01s), Max Depth: 0.7313368921m, Max Vel: 9.9999999990m/s, Area: 554400.0m², Vol: 44423.4m³

Step 28400/29999, Sim Time: 6237.291s (+1.315e-01s), Max Depth: 0.7297232796m, Max Vel: 9.9999999990m/s, Area: 553000.0m², Vol: 44214.7m³

Step 28500/29999, Sim Time: 6250.442s (+1.315e-01s), Max Depth: 0.7313576008m, Max Vel: 9.9999999990m/s, Area: 554525.0m², Vol: 44273.9m³

Step 28600/29999, Sim Time: 6263.587s (+1.314e-01s), Max Depth: 0.7313003043m, Max Vel: 9.9999999990m/s, Area: 553225.0m², Vol: 44208.3m³

Step 28700/29999, Sim Time: 6276.727s (+1.314e-01s), Max Depth: 0.7298596389m, Max Vel: 9.9999999990m/s, Area: 554550.0m², Vol: 44080.6m³

Step 28800/29999, Sim Time: 6289.863s (+1.314e-01s), Max Depth: 0.7314321551m, Max Vel: 9.9999999990m/s, Area: 555725.0m², Vol: 44210.8m³

Step 28900/29999, Sim Time: 6302.996s (+1.313e-01s), Max Depth: 0.7293322333m, Max Vel: 9.9999999990m/s, Area: 555250.0m², Vol: 44059.4m³

Step 29000/29999, Sim Time: 6316.125s (+1.313e-01s), Max Depth: 0.7302026250m, Max Vel: 9.9999999990m/s, Area: 553500.0m², Vol: 44125.8m³

Step 29100/29999, Sim Time: 6329.252s (+1.313e-01s), Max Depth: 0.7298445679m, Max Vel: 9.9999999990m/s, Area: 554950.0m², Vol: 44190.0m³

Step 29200/29999, Sim Time: 6342.380s (+1.313e-01s), Max Depth: 0.7294606198m, Max Vel: 9.9999999990m/s, Area: 556900.0m², Vol: 44278.3m³

Step 29300/29999, Sim Time: 6355.509s (+1.313e-01s), Max Depth: 0.7311848891m, Max Vel: 9.9999999990m/s, Area: 556625.0m², Vol: 44477.1m³

Step 29400/29999, Sim Time: 6368.638s (+1.313e-01s), Max Depth: 0.7292411151m, Max Vel: 9.9999999990m/s, Area: 556950.0m², Vol: 44431.2m³

Step 29500/29999, Sim Time: 6381.766s (+1.313e-01s), Max Depth: 0.7307840169m, Max Vel: 9.9999999990m/s, Area: 555900.0m², Vol: 44582.5m³

Step 29600/29999, Sim Time: 6394.893s (+1.313e-01s), Max Depth: 0.7285045367m, Max Vel: 9.9999999990m/s, Area: 554925.0m², Vol: 44472.5m³

Step 29700/29999, Sim Time: 6408.020s (+1.313e-01s), Max Depth: 0.7306460913m, Max Vel: 9.9999999990m/s, Area: 556125.0m², Vol: 44695.1m³

Step 29800/29999, Sim Time: 6421.146s (+1.313e-01s), Max Depth: 0.7296074733m, Max Vel: 9.9999999990m/s, Area: 555950.0m², Vol: 44665.4m³

Step 29900/29999, Sim Time: 6434.272s (+1.313e-01s), Max Depth: 0.7296966159m, Max Vel: 9.9999999990m/s, Area: 555525.0m², Vol: 44728.2m³

Step 29999/29999, Sim Time: 6447.266s (+1.313e-01s), Max Depth: 0.7313781376m, Max Vel: 9.9999999990m/s, Area: 555225.0m², Vol: 44939.2m³

Simulation finished 30000 steps in 258.41 seconds (wall clock).

Final Maximum Flood Extent Area: 989800.00 m²

Peak Recorded Water Depth Anywhere: 1.132 m

Phase 2 max depth: 0.731 m, steady state max depth: 0.734 m, rate of increase: -0.000000 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain11\_5625.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain11\_5625\_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 11.875 --output-freq 100 -o result\_rain11\_875.mp4 –save --source-row 50 --source-col 1 --source-rate 1.5

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 157.96 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26s. Stored steady\_state\_h.

--- Starting Phase 2: Rainfall & WSE Monitoring (30000 steps) ---

Added rainfall: rate=3.298611111111111e-06 m/s, duration=30000 steps

Added rainfall for Phase 2: 11.875 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337688090m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39721.2m³

Step 100/29999, Sim Time: 55.080s (+5.453e-01s), Max Depth: 0.7339774550m, Max Vel: 0.5258214759m/s, Area: 130825.0m², Vol: 39892.3m³

Step 200/29999, Sim Time: 109.607s (+5.452e-01s), Max Depth: 0.7341811218m, Max Vel: 0.5260103063m/s, Area: 130850.0m², Vol: 40062.3m³

Step 300/29999, Sim Time: 164.123s (+5.451e-01s), Max Depth: 0.7343940577m, Max Vel: 0.5262754696m/s, Area: 130875.0m², Vol: 40231.6m³

Step 400/29999, Sim Time: 218.629s (+5.450e-01s), Max Depth: 0.7345991835m, Max Vel: 0.5264385341m/s, Area: 130925.0m², Vol: 40400.3m³

Step 500/29999, Sim Time: 273.127s (+5.449e-01s), Max Depth: 0.7347947180m, Max Vel: 0.5265970603m/s, Area: 131000.0m², Vol: 40568.6m³

Step 600/29999, Sim Time: 327.615s (+5.448e-01s), Max Depth: 0.7349741592m, Max Vel: 0.5267405939m/s, Area: 131050.0m², Vol: 40736.6m³

Step 700/29999, Sim Time: 382.096s (+5.448e-01s), Max Depth: 0.7351347296m, Max Vel: 0.5268841750m/s, Area: 131100.0m², Vol: 40904.4m³

Step 800/29999, Sim Time: 436.570s (+5.447e-01s), Max Depth: 0.7352741195m, Max Vel: 0.5270318004m/s, Area: 131275.0m², Vol: 41072.4m³

Step 900/29999, Sim Time: 491.038s (+5.446e-01s), Max Depth: 0.7353925830m, Max Vel: 0.5272259636m/s, Area: 131300.0m², Vol: 41240.6m³

Step 1000/29999, Sim Time: 545.498s (+5.446e-01s), Max Depth: 0.7354863538m, Max Vel: 0.5273835294m/s, Area: 131300.0m², Vol: 41408.2m³

Step 1100/29999, Sim Time: 599.954s (+5.445e-01s), Max Depth: 0.7355555253m, Max Vel: 0.5275606391m/s, Area: 131350.0m², Vol: 41575.3m³

Step 1200/29999, Sim Time: 654.405s (+5.445e-01s), Max Depth: 0.7356006131m, Max Vel: 0.5277338074m/s, Area: 131375.0m², Vol: 41742.2m³

Step 1300/29999, Sim Time: 708.851s (+5.444e-01s), Max Depth: 0.7356223304m, Max Vel: 0.5279100656m/s, Area: 131450.0m², Vol: 41908.5m³

Step 1400/29999, Sim Time: 763.295s (+5.444e-01s), Max Depth: 0.7356216152m, Max Vel: 0.5280884761m/s, Area: 131475.0m², Vol: 42074.8m³

Step 1500/29999, Sim Time: 817.735s (+5.444e-01s), Max Depth: 0.7355999482m, Max Vel: 0.5282685224m/s, Area: 131575.0m², Vol: 42241.1m³

Step 1600/29999, Sim Time: 872.174s (+5.444e-01s), Max Depth: 0.7355586802m, Max Vel: 0.5284581603m/s, Area: 131625.0m², Vol: 42407.1m³

Step 1700/29999, Sim Time: 926.611s (+5.444e-01s), Max Depth: 0.7355007791m, Max Vel: 0.5286728271m/s, Area: 131650.0m², Vol: 42572.9m³

Step 1800/29999, Sim Time: 981.046s (+5.443e-01s), Max Depth: 0.7354257166m, Max Vel: 0.5288724001m/s, Area: 131725.0m², Vol: 42738.3m³

Step 1900/29999, Sim Time: 1035.480s (+5.443e-01s), Max Depth: 0.7353378399m, Max Vel: 0.5291066473m/s, Area: 131775.0m², Vol: 42903.5m³

Step 2000/29999, Sim Time: 1089.913s (+5.443e-01s), Max Depth: 0.7352413076m, Max Vel: 0.5293230692m/s, Area: 131800.0m², Vol: 43068.4m³

Step 2100/29999, Sim Time: 1144.346s (+5.443e-01s), Max Depth: 0.7351305161m, Max Vel: 0.5295408534m/s, Area: 131850.0m², Vol: 43232.9m³

Step 2200/29999, Sim Time: 1198.778s (+5.443e-01s), Max Depth: 0.7350044016m, Max Vel: 0.5297528826m/s, Area: 131875.0m², Vol: 43397.2m³

Step 2300/29999, Sim Time: 1253.212s (+5.443e-01s), Max Depth: 0.7348647719m, Max Vel: 0.5299606613m/s, Area: 131950.0m², Vol: 43561.0m³

Step 2400/29999, Sim Time: 1307.646s (+5.443e-01s), Max Depth: 0.7347139685m, Max Vel: 0.5301681163m/s, Area: 131950.0m², Vol: 43724.7m³

Step 2500/29999, Sim Time: 1362.081s (+5.444e-01s), Max Depth: 0.7345537792m, Max Vel: 0.5303729041m/s, Area: 132000.0m², Vol: 43887.9m³

Step 2600/29999, Sim Time: 1416.518s (+5.444e-01s), Max Depth: 0.7343862451m, Max Vel: 0.5305731953m/s, Area: 132075.0m², Vol: 44051.0m³

Step 2700/29999, Sim Time: 1470.958s (+5.444e-01s), Max Depth: 0.7342138026m, Max Vel: 0.5307683197m/s, Area: 132125.0m², Vol: 44214.1m³

Step 2800/29999, Sim Time: 1525.399s (+5.444e-01s), Max Depth: 0.7340383547m, Max Vel: 0.5309573970m/s, Area: 132125.0m², Vol: 44377.2m³

Step 2900/29999, Sim Time: 1579.842s (+5.444e-01s), Max Depth: 0.7338616485m, Max Vel: 0.5311400750m/s, Area: 132125.0m², Vol: 44540.0m³

Step 3000/29999, Sim Time: 1634.288s (+5.445e-01s), Max Depth: 0.7336854544m, Max Vel: 0.5313166070m/s, Area: 132175.0m², Vol: 44702.6m³

Step 3100/29999, Sim Time: 1688.737s (+5.445e-01s), Max Depth: 0.7335114139m, Max Vel: 0.5314892283m/s, Area: 132250.0m², Vol: 44865.1m³

Step 3200/29999, Sim Time: 1743.187s (+5.445e-01s), Max Depth: 0.7333410331m, Max Vel: 0.5316574548m/s, Area: 132325.0m², Vol: 45027.7m³

Step 3300/29999, Sim Time: 1797.641s (+5.445e-01s), Max Depth: 0.7331753332m, Max Vel: 0.5318215721m/s, Area: 132400.0m², Vol: 45190.4m³

Step 3400/29999, Sim Time: 1852.096s (+5.446e-01s), Max Depth: 0.7330152931m, Max Vel: 0.5319828541m/s, Area: 132475.0m², Vol: 45353.2m³

Step 3500/29999, Sim Time: 1906.554s (+5.446e-01s), Max Depth: 0.7328621456m, Max Vel: 0.5321510951m/s, Area: 132500.0m², Vol: 45516.6m³

Step 3600/29999, Sim Time: 1961.013s (+5.446e-01s), Max Depth: 0.7327169162m, Max Vel: 0.5323284546m/s, Area: 132500.0m², Vol: 45680.2m³

Step 3700/29999, Sim Time: 2015.474s (+5.446e-01s), Max Depth: 0.7325797847m, Max Vel: 0.5324950545m/s, Area: 132550.0m², Vol: 45843.7m³

Step 3800/29999, Sim Time: 2069.936s (+5.446e-01s), Max Depth: 0.7324495112m, Max Vel: 0.5326612686m/s, Area: 132550.0m², Vol: 46007.4m³

Step 3900/29999, Sim Time: 2124.399s (+5.446e-01s), Max Depth: 0.7323266909m, Max Vel: 0.5328249808m/s, Area: 132550.0m², Vol: 46171.1m³

Step 4000/29999, Sim Time: 2178.864s (+5.446e-01s), Max Depth: 0.7322110733m, Max Vel: 0.5329869652m/s, Area: 132625.0m², Vol: 46335.2m³

Step 4100/29999, Sim Time: 2233.328s (+5.447e-01s), Max Depth: 0.7321025412m, Max Vel: 0.5331495977m/s, Area: 132625.0m², Vol: 46499.2m³

Step 4200/29999, Sim Time: 2253.975s (+1.380e-01s), Max Depth: 0.7320631636m, Max Vel: 9.9999999990m/s, Area: 132650.0m², Vol: 46563.4m³

Step 4300/29999, Sim Time: 2267.777s (+1.380e-01s), Max Depth: 0.7320373767m, Max Vel: 9.9999999990m/s, Area: 132725.0m², Vol: 46607.1m³

Step 4400/29999, Sim Time: 2281.578s (+1.380e-01s), Max Depth: 0.7320119654m, Max Vel: 9.9999999991m/s, Area: 132725.0m², Vol: 46652.4m³

Step 4500/29999, Sim Time: 2321.134s (+5.447e-01s), Max Depth: 0.7319415909m, Max Vel: 0.5334134601m/s, Area: 132800.0m², Vol: 46774.7m³

Step 4600/29999, Sim Time: 2375.600s (+5.447e-01s), Max Depth: 0.7318498935m, Max Vel: 0.5335767006m/s, Area: 132825.0m², Vol: 46936.9m³

Step 4700/29999, Sim Time: 2430.066s (+5.447e-01s), Max Depth: 0.7317658361m, Max Vel: 0.5337394282m/s, Area: 132800.0m², Vol: 47100.3m³

Step 4800/29999, Sim Time: 2484.531s (+5.446e-01s), Max Depth: 0.7317005911m, Max Vel: 0.5338985588m/s, Area: 132825.0m², Vol: 47263.9m³

Step 4900/29999, Sim Time: 2538.995s (+5.446e-01s), Max Depth: 0.7316566179m, Max Vel: 0.5340485892m/s, Area: 132850.0m², Vol: 47427.9m³

Step 5000/29999, Sim Time: 2593.458s (+5.446e-01s), Max Depth: 0.7316311423m, Max Vel: 0.5341939226m/s, Area: 132825.0m², Vol: 47592.3m³

Step 5100/29999, Sim Time: 2647.919s (+5.446e-01s), Max Depth: 0.7316195713m, Max Vel: 0.5343357748m/s, Area: 132800.0m², Vol: 47756.9m³

Step 5200/29999, Sim Time: 2702.378s (+5.446e-01s), Max Depth: 0.7316170057m, Max Vel: 0.5344781516m/s, Area: 132800.0m², Vol: 47921.6m³

Step 5300/29999, Sim Time: 2751.916s (+3.786e-01s), Max Depth: 0.7316188944m, Max Vel: 1.9670926351m/s, Area: 132825.0m², Vol: 48071.5m³

Step 5400/29999, Sim Time: 2782.997s (+2.643e-01s), Max Depth: 0.7316211061m, Max Vel: 3.9592193905m/s, Area: 132875.0m², Vol: 48165.4m³

Step 5500/29999, Sim Time: 2806.664s (+2.146e-01s), Max Depth: 0.7316228886m, Max Vel: 5.4881438935m/s, Area: 132925.0m², Vol: 48237.0m³

Step 5600/29999, Sim Time: 2826.538s (+1.853e-01s), Max Depth: 0.7316241909m, Max Vel: 6.7778195113m/s, Area: 132925.0m², Vol: 48297.1m³

Step 5700/29999, Sim Time: 2844.004s (+1.654e-01s), Max Depth: 0.7316251296m, Max Vel: 7.9148233646m/s, Area: 132925.0m², Vol: 48350.0m³

Step 5800/29999, Sim Time: 2859.766s (+1.507e-01s), Max Depth: 0.7316257784m, Max Vel: 8.9430269685m/s, Area: 132925.0m², Vol: 48397.8m³

Step 5900/29999, Sim Time: 2874.241s (+1.393e-01s), Max Depth: 0.7316261545m, Max Vel: 9.8889233998m/s, Area: 132950.0m², Vol: 48441.7m³

Step 6000/29999, Sim Time: 2888.051s (+1.380e-01s), Max Depth: 0.7316262883m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48483.6m³

Step 6100/29999, Sim Time: 2901.854s (+1.380e-01s), Max Depth: 0.7316261844m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48525.4m³

Step 6200/29999, Sim Time: 2915.656s (+1.380e-01s), Max Depth: 0.7316259059m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48567.3m³

Step 6300/29999, Sim Time: 2929.458s (+1.380e-01s), Max Depth: 0.7316257114m, Max Vel: 9.9999999990m/s, Area: 133000.0m², Vol: 48609.1m³

Step 6400/29999, Sim Time: 2943.260s (+1.380e-01s), Max Depth: 0.7316257621m, Max Vel: 9.9999999990m/s, Area: 133050.0m², Vol: 48651.0m³

Step 6500/29999, Sim Time: 2957.063s (+1.380e-01s), Max Depth: 0.7316259657m, Max Vel: 9.9999999990m/s, Area: 133075.0m², Vol: 48692.9m³

Step 6600/29999, Sim Time: 2970.865s (+1.380e-01s), Max Depth: 0.7316259079m, Max Vel: 9.9999999990m/s, Area: 133100.0m², Vol: 48734.8m³

Step 6700/29999, Sim Time: 2984.667s (+1.380e-01s), Max Depth: 0.7316273531m, Max Vel: 9.9999999990m/s, Area: 133100.0m², Vol: 48776.7m³

Step 6800/29999, Sim Time: 3009.605s (+5.444e-01s), Max Depth: 0.7316300245m, Max Vel: 0.5354087104m/s, Area: 133075.0m², Vol: 48852.5m³

Step 6900/29999, Sim Time: 3064.046s (+5.444e-01s), Max Depth: 0.7315996629m, Max Vel: 0.5356237709m/s, Area: 133300.0m², Vol: 49018.1m³

Step 7000/29999, Sim Time: 3118.483s (+5.444e-01s), Max Depth: 0.7315315389m, Max Vel: 0.5358656572m/s, Area: 140575.0m², Vol: 49181.2m³

Step 7100/29999, Sim Time: 3172.918s (+5.443e-01s), Max Depth: 0.7316909630m, Max Vel: 0.5360144746m/s, Area: 226775.0m², Vol: 49310.1m³

Step 7200/29999, Sim Time: 3196.438s (+5.136e-01s), Max Depth: 0.7319415979m, Max Vel: 0.7168783231m/s, Area: 294575.0m², Vol: 49336.5m³

Step 7300/29999, Sim Time: 3220.097s (+4.213e-01s), Max Depth: 0.7326338833m, Max Vel: 1.1733736537m/s, Area: 346425.0m², Vol: 49345.9m³

Step 7400/29999, Sim Time: 3253.700s (+1.380e-01s), Max Depth: 0.7337373213m, Max Vel: 9.9999999995m/s, Area: 382725.0m², Vol: 49347.5m³

Step 7500/29999, Sim Time: 3282.899s (+1.380e-01s), Max Depth: 0.7347782064m, Max Vel: 9.9999999999m/s, Area: 394650.0m², Vol: 49349.7m³

Step 7600/29999, Sim Time: 3318.239s (+5.331e-01s), Max Depth: 0.7358009469m, Max Vel: 0.5950656064m/s, Area: 399750.0m², Vol: 49347.9m³

Step 7700/29999, Sim Time: 3339.853s (+5.055e-01s), Max Depth: 0.7349014025m, Max Vel: 0.7891996627m/s, Area: 403550.0m², Vol: 49350.8m³

Step 7800/29999, Sim Time: 3360.941s (+3.568e-01s), Max Depth: 0.7367153455m, Max Vel: 1.6746481247m/s, Area: 408525.0m², Vol: 49357.7m³

Step 7900/29999, Sim Time: 3382.060s (+4.503e-01s), Max Depth: 0.7394069488m, Max Vel: 1.0023203706m/s, Area: 409325.0m², Vol: 49376.9m³

Step 8000/29999, Sim Time: 3409.888s (+1.378e-01s), Max Depth: 0.7418127061m, Max Vel: 9.9999999990m/s, Area: 412175.0m², Vol: 49411.8m³

Step 8100/29999, Sim Time: 3448.572s (+3.979e-01s), Max Depth: 0.7465974881m, Max Vel: 1.6996844645m/s, Area: 417600.0m², Vol: 49476.3m³

Step 8200/29999, Sim Time: 3471.026s (+1.377e-01s), Max Depth: 0.7487795473m, Max Vel: 9.9999999990m/s, Area: 420600.0m², Vol: 49523.7m³

Step 8300/29999, Sim Time: 3484.793s (+1.377e-01s), Max Depth: 0.7500296865m, Max Vel: 9.9999999990m/s, Area: 422525.0m², Vol: 49549.2m³

Step 8400/29999, Sim Time: 3498.558s (+1.376e-01s), Max Depth: 0.7511489975m, Max Vel: 9.9999999990m/s, Area: 423225.0m², Vol: 49574.8m³

Step 8500/29999, Sim Time: 3512.320s (+1.376e-01s), Max Depth: 0.7528309968m, Max Vel: 9.9999999990m/s, Area: 424675.0m², Vol: 49603.6m³

Step 8600/29999, Sim Time: 3526.078s (+1.376e-01s), Max Depth: 0.7547562262m, Max Vel: 9.9999999990m/s, Area: 425350.0m², Vol: 49635.0m³

Step 8700/29999, Sim Time: 3539.833s (+1.375e-01s), Max Depth: 0.7565669233m, Max Vel: 9.9999999990m/s, Area: 427950.0m², Vol: 49670.1m³

Step 8800/29999, Sim Time: 3553.585s (+1.375e-01s), Max Depth: 0.7583548694m, Max Vel: 9.9999999990m/s, Area: 429425.0m², Vol: 49707.3m³

Step 8900/29999, Sim Time: 3567.332s (+1.374e-01s), Max Depth: 0.7608511513m, Max Vel: 9.9999999990m/s, Area: 430475.0m², Vol: 49745.4m³

Step 9000/29999, Sim Time: 3581.074s (+1.374e-01s), Max Depth: 0.7639086432m, Max Vel: 9.9999999990m/s, Area: 430675.0m², Vol: 49785.3m³

Step 9100/29999, Sim Time: 3594.810s (+1.373e-01s), Max Depth: 0.7671644700m, Max Vel: 9.9999999990m/s, Area: 432850.0m², Vol: 49827.9m³

Step 9200/29999, Sim Time: 3608.540s (+1.373e-01s), Max Depth: 0.7701059482m, Max Vel: 9.9999999990m/s, Area: 432825.0m², Vol: 49872.9m³

Step 9300/29999, Sim Time: 3622.264s (+1.372e-01s), Max Depth: 0.7732273024m, Max Vel: 9.9999999990m/s, Area: 434750.0m², Vol: 49920.6m³

Step 9400/29999, Sim Time: 3635.981s (+1.371e-01s), Max Depth: 0.7774232045m, Max Vel: 9.9999999990m/s, Area: 435450.0m², Vol: 49973.4m³

Step 9500/29999, Sim Time: 3649.691s (+1.371e-01s), Max Depth: 0.7775572014m, Max Vel: 9.9999999990m/s, Area: 436975.0m², Vol: 49779.8m³

Step 9600/29999, Sim Time: 3663.392s (+1.370e-01s), Max Depth: 0.7776326564m, Max Vel: 9.9999999990m/s, Area: 438225.0m², Vol: 49609.4m³

Step 9700/29999, Sim Time: 3677.087s (+1.369e-01s), Max Depth: 0.7774168728m, Max Vel: 9.9999999990m/s, Area: 438625.0m², Vol: 49426.3m³

Step 9800/29999, Sim Time: 3690.775s (+1.368e-01s), Max Depth: 0.7775289029m, Max Vel: 9.9999999990m/s, Area: 440500.0m², Vol: 49246.0m³

Step 9900/29999, Sim Time: 3704.455s (+1.368e-01s), Max Depth: 0.7775860940m, Max Vel: 9.9999999990m/s, Area: 442500.0m², Vol: 49068.3m³

Step 10000/29999, Sim Time: 3718.127s (+1.367e-01s), Max Depth: 0.7777964325m, Max Vel: 9.9999999990m/s, Area: 445050.0m², Vol: 48874.3m³

Step 10100/29999, Sim Time: 3731.791s (+1.366e-01s), Max Depth: 0.7776521577m, Max Vel: 9.9999999990m/s, Area: 444025.0m², Vol: 48669.3m³

Step 10200/29999, Sim Time: 3745.446s (+1.365e-01s), Max Depth: 0.7774616384m, Max Vel: 9.9999999990m/s, Area: 446675.0m², Vol: 48497.1m³

Step 10300/29999, Sim Time: 3759.095s (+1.365e-01s), Max Depth: 0.7775584064m, Max Vel: 9.9999999990m/s, Area: 446625.0m², Vol: 48399.0m³

Step 10400/29999, Sim Time: 3772.739s (+1.364e-01s), Max Depth: 0.7774250961m, Max Vel: 9.9999999990m/s, Area: 449250.0m², Vol: 48289.3m³

Step 10500/29999, Sim Time: 3786.377s (+1.363e-01s), Max Depth: 0.7775129945m, Max Vel: 9.9999999990m/s, Area: 448725.0m², Vol: 48172.7m³

Step 10600/29999, Sim Time: 3800.008s (+1.363e-01s), Max Depth: 0.7775545796m, Max Vel: 9.9999999990m/s, Area: 451275.0m², Vol: 48066.1m³

Step 10700/29999, Sim Time: 3813.635s (+1.362e-01s), Max Depth: 0.7778429016m, Max Vel: 9.9999999990m/s, Area: 450300.0m², Vol: 48000.6m³

Step 10800/29999, Sim Time: 3827.256s (+1.362e-01s), Max Depth: 0.7779128794m, Max Vel: 9.9999999990m/s, Area: 451950.0m², Vol: 47918.9m³

Step 10900/29999, Sim Time: 3840.873s (+1.361e-01s), Max Depth: 0.7775454801m, Max Vel: 9.9999999990m/s, Area: 454025.0m², Vol: 47827.6m³

Step 11000/29999, Sim Time: 3854.486s (+1.361e-01s), Max Depth: 0.7779324713m, Max Vel: 9.9999999990m/s, Area: 457000.0m², Vol: 47816.4m³

Step 11100/29999, Sim Time: 3868.095s (+1.361e-01s), Max Depth: 0.7776203638m, Max Vel: 9.9999999990m/s, Area: 459625.0m², Vol: 47733.5m³

Step 11200/29999, Sim Time: 3881.700s (+1.360e-01s), Max Depth: 0.7778606121m, Max Vel: 9.9999999990m/s, Area: 460450.0m², Vol: 47663.5m³

Step 11300/29999, Sim Time: 3895.300s (+1.360e-01s), Max Depth: 0.7776816517m, Max Vel: 9.9999999990m/s, Area: 461150.0m², Vol: 47583.4m³

Step 11400/29999, Sim Time: 3908.896s (+1.359e-01s), Max Depth: 0.7778301815m, Max Vel: 9.9999999990m/s, Area: 461375.0m², Vol: 47560.1m³

Step 11500/29999, Sim Time: 3922.489s (+1.359e-01s), Max Depth: 0.7778557709m, Max Vel: 9.9999999990m/s, Area: 463775.0m², Vol: 47519.3m³

Step 11600/29999, Sim Time: 3936.078s (+1.359e-01s), Max Depth: 0.7781468691m, Max Vel: 9.9999999990m/s, Area: 463375.0m², Vol: 47488.4m³

Step 11700/29999, Sim Time: 3949.664s (+1.358e-01s), Max Depth: 0.7777994263m, Max Vel: 9.9999999990m/s, Area: 463900.0m², Vol: 47438.7m³

Step 11800/29999, Sim Time: 3963.247s (+1.358e-01s), Max Depth: 0.7781068475m, Max Vel: 9.9999999990m/s, Area: 466775.0m², Vol: 47446.4m³

Step 11900/29999, Sim Time: 3976.828s (+1.358e-01s), Max Depth: 0.7780389264m, Max Vel: 9.9999999990m/s, Area: 467750.0m², Vol: 47432.2m³

Step 12000/29999, Sim Time: 3990.407s (+1.358e-01s), Max Depth: 0.7779661045m, Max Vel: 9.9999999990m/s, Area: 467400.0m², Vol: 47427.0m³

Step 12100/29999, Sim Time: 4003.983s (+1.358e-01s), Max Depth: 0.7779587099m, Max Vel: 9.9999999990m/s, Area: 470625.0m², Vol: 47428.8m³

Step 12200/29999, Sim Time: 4017.558s (+1.357e-01s), Max Depth: 0.7779448454m, Max Vel: 9.9999999990m/s, Area: 469725.0m², Vol: 47427.3m³

Step 12300/29999, Sim Time: 4031.131s (+1.357e-01s), Max Depth: 0.7784016016m, Max Vel: 9.9999999990m/s, Area: 470125.0m², Vol: 47448.0m³

Step 12400/29999, Sim Time: 4044.702s (+1.357e-01s), Max Depth: 0.7781293819m, Max Vel: 9.9999999990m/s, Area: 470125.0m², Vol: 47421.1m³

Step 12500/29999, Sim Time: 4058.271s (+1.357e-01s), Max Depth: 0.7780861637m, Max Vel: 9.9999999990m/s, Area: 472525.0m², Vol: 47408.6m³

Step 12600/29999, Sim Time: 4071.837s (+1.357e-01s), Max Depth: 0.7780862970m, Max Vel: 9.9999999990m/s, Area: 472950.0m², Vol: 47408.3m³

Step 12700/29999, Sim Time: 4085.402s (+1.356e-01s), Max Depth: 0.7781871299m, Max Vel: 9.9999999990m/s, Area: 472575.0m², Vol: 47436.2m³

Step 12800/29999, Sim Time: 4098.966s (+1.356e-01s), Max Depth: 0.7785464650m, Max Vel: 9.9999999990m/s, Area: 474875.0m², Vol: 47455.6m³

Step 12900/29999, Sim Time: 4112.528s (+1.356e-01s), Max Depth: 0.7784049049m, Max Vel: 9.9999999990m/s, Area: 475100.0m², Vol: 47461.5m³

Step 13000/29999, Sim Time: 4126.088s (+1.356e-01s), Max Depth: 0.7784754347m, Max Vel: 9.9999999990m/s, Area: 476400.0m², Vol: 47462.1m³

Step 13100/29999, Sim Time: 4139.647s (+1.356e-01s), Max Depth: 0.7781225537m, Max Vel: 9.9999999990m/s, Area: 479625.0m², Vol: 47444.3m³

Step 13200/29999, Sim Time: 4153.204s (+1.356e-01s), Max Depth: 0.7782971954m, Max Vel: 9.9999999990m/s, Area: 479100.0m², Vol: 47470.2m³

Step 13300/29999, Sim Time: 4166.760s (+1.356e-01s), Max Depth: 0.7785714699m, Max Vel: 9.9999999990m/s, Area: 480825.0m², Vol: 47509.6m³

Step 13400/29999, Sim Time: 4180.315s (+1.356e-01s), Max Depth: 0.7784552230m, Max Vel: 9.9999999990m/s, Area: 480375.0m², Vol: 47536.7m³

Step 13500/29999, Sim Time: 4193.869s (+1.355e-01s), Max Depth: 0.7783766497m, Max Vel: 9.9999999990m/s, Area: 480550.0m², Vol: 47544.0m³

Step 13600/29999, Sim Time: 4207.422s (+1.355e-01s), Max Depth: 0.7784126194m, Max Vel: 9.9999999990m/s, Area: 483525.0m², Vol: 47563.1m³

Step 13700/29999, Sim Time: 4220.974s (+1.355e-01s), Max Depth: 0.7786650042m, Max Vel: 9.9999999990m/s, Area: 483775.0m², Vol: 47595.8m³

Step 13800/29999, Sim Time: 4234.525s (+1.355e-01s), Max Depth: 0.7786247256m, Max Vel: 9.9999999990m/s, Area: 485550.0m², Vol: 47600.5m³

Step 13900/29999, Sim Time: 4248.075s (+1.355e-01s), Max Depth: 0.7785640784m, Max Vel: 9.9999999990m/s, Area: 484100.0m², Vol: 47632.0m³

Step 14000/29999, Sim Time: 4261.624s (+1.355e-01s), Max Depth: 0.7788181138m, Max Vel: 9.9999999990m/s, Area: 487050.0m², Vol: 47668.2m³

Step 14100/29999, Sim Time: 4275.172s (+1.355e-01s), Max Depth: 0.7785963398m, Max Vel: 9.9999999990m/s, Area: 487325.0m², Vol: 47694.2m³

Step 14200/29999, Sim Time: 4288.719s (+1.355e-01s), Max Depth: 0.7785023014m, Max Vel: 9.9999999990m/s, Area: 489375.0m², Vol: 47729.1m³

Step 14300/29999, Sim Time: 4302.267s (+1.355e-01s), Max Depth: 0.7786615898m, Max Vel: 9.9999999990m/s, Area: 488925.0m², Vol: 47768.1m³

Step 14400/29999, Sim Time: 4315.813s (+1.355e-01s), Max Depth: 0.7789178089m, Max Vel: 9.9999999990m/s, Area: 489750.0m², Vol: 47820.9m³

Step 14500/29999, Sim Time: 4329.359s (+1.355e-01s), Max Depth: 0.7786044942m, Max Vel: 9.9999999990m/s, Area: 491050.0m², Vol: 47827.9m³

Step 14600/29999, Sim Time: 4342.904s (+1.354e-01s), Max Depth: 0.7789782625m, Max Vel: 9.9999999990m/s, Area: 490200.0m², Vol: 47871.1m³

Step 14700/29999, Sim Time: 4356.448s (+1.354e-01s), Max Depth: 0.7789545006m, Max Vel: 9.9999999990m/s, Area: 492600.0m², Vol: 47890.6m³

Step 14800/29999, Sim Time: 4369.991s (+1.354e-01s), Max Depth: 0.7787002587m, Max Vel: 9.9999999990m/s, Area: 493600.0m², Vol: 47888.0m³

Step 14900/29999, Sim Time: 4383.533s (+1.354e-01s), Max Depth: 0.7790284360m, Max Vel: 9.9999999990m/s, Area: 495450.0m², Vol: 47933.1m³

Step 15000/29999, Sim Time: 4397.073s (+1.354e-01s), Max Depth: 0.7787920929m, Max Vel: 9.9999999990m/s, Area: 496050.0m², Vol: 47957.1m³

Step 15100/29999, Sim Time: 4410.614s (+1.354e-01s), Max Depth: 0.7789915215m, Max Vel: 9.9999999990m/s, Area: 496700.0m², Vol: 47985.4m³

Step 15200/29999, Sim Time: 4424.153s (+1.354e-01s), Max Depth: 0.7791659261m, Max Vel: 9.9999999990m/s, Area: 497225.0m², Vol: 48029.6m³

Step 15300/29999, Sim Time: 4437.692s (+1.354e-01s), Max Depth: 0.7790454530m, Max Vel: 9.9999999990m/s, Area: 497300.0m², Vol: 48061.7m³

Step 15400/29999, Sim Time: 4451.230s (+1.354e-01s), Max Depth: 0.7788211203m, Max Vel: 9.9999999990m/s, Area: 497800.0m², Vol: 48084.1m³

Step 15500/29999, Sim Time: 4464.768s (+1.354e-01s), Max Depth: 0.7790717441m, Max Vel: 9.9999999990m/s, Area: 499800.0m², Vol: 48142.8m³

Step 15600/29999, Sim Time: 4478.305s (+1.354e-01s), Max Depth: 0.7788174985m, Max Vel: 9.9999999990m/s, Area: 499800.0m², Vol: 48165.6m³

Step 15700/29999, Sim Time: 4491.842s (+1.354e-01s), Max Depth: 0.7790749166m, Max Vel: 9.9999999990m/s, Area: 501125.0m², Vol: 48215.4m³

Step 15800/29999, Sim Time: 4505.378s (+1.354e-01s), Max Depth: 0.7788180077m, Max Vel: 9.9999999990m/s, Area: 503625.0m², Vol: 48251.0m³

Step 15900/29999, Sim Time: 4518.915s (+1.354e-01s), Max Depth: 0.7790782076m, Max Vel: 9.9999999990m/s, Area: 501550.0m², Vol: 48333.9m³

Step 16000/29999, Sim Time: 4532.451s (+1.354e-01s), Max Depth: 0.7789153825m, Max Vel: 9.9999999990m/s, Area: 501700.0m², Vol: 48363.8m³

Step 16100/29999, Sim Time: 4545.987s (+1.354e-01s), Max Depth: 0.7789412040m, Max Vel: 9.9999999990m/s, Area: 502225.0m², Vol: 48412.0m³

Step 16200/29999, Sim Time: 4559.523s (+1.354e-01s), Max Depth: 0.7790157078m, Max Vel: 9.9999999990m/s, Area: 503875.0m², Vol: 48481.0m³

Step 16300/29999, Sim Time: 4573.059s (+1.354e-01s), Max Depth: 0.7794020607m, Max Vel: 9.9999999990m/s, Area: 504600.0m², Vol: 48550.1m³

Step 16400/29999, Sim Time: 4586.595s (+1.354e-01s), Max Depth: 0.7790466867m, Max Vel: 9.9999999990m/s, Area: 505150.0m², Vol: 48566.8m³

Step 16500/29999, Sim Time: 4600.130s (+1.354e-01s), Max Depth: 0.7793808401m, Max Vel: 9.9999999990m/s, Area: 506800.0m², Vol: 48636.6m³

Step 16600/29999, Sim Time: 4613.665s (+1.353e-01s), Max Depth: 0.7793047886m, Max Vel: 9.9999999990m/s, Area: 507075.0m², Vol: 48672.8m³

Step 16700/29999, Sim Time: 4627.200s (+1.353e-01s), Max Depth: 0.7792530952m, Max Vel: 9.9999999990m/s, Area: 509150.0m², Vol: 48713.1m³

Step 16800/29999, Sim Time: 4640.734s (+1.353e-01s), Max Depth: 0.7792181684m, Max Vel: 9.9999999990m/s, Area: 507550.0m², Vol: 48750.9m³

Step 16900/29999, Sim Time: 4654.268s (+1.353e-01s), Max Depth: 0.7795523825m, Max Vel: 9.9999999990m/s, Area: 508050.0m², Vol: 48804.5m³

Step 17000/29999, Sim Time: 4667.800s (+1.353e-01s), Max Depth: 0.7793158291m, Max Vel: 9.9999999990m/s, Area: 510075.0m², Vol: 48820.4m³

Step 17100/29999, Sim Time: 4681.331s (+1.353e-01s), Max Depth: 0.7794896875m, Max Vel: 9.9999999990m/s, Area: 510725.0m², Vol: 48850.7m³

Step 17200/29999, Sim Time: 4694.861s (+1.353e-01s), Max Depth: 0.7792988604m, Max Vel: 9.9999999990m/s, Area: 512525.0m², Vol: 48831.9m³

Step 17300/29999, Sim Time: 4708.388s (+1.353e-01s), Max Depth: 0.7791986949m, Max Vel: 9.9999999990m/s, Area: 514225.0m², Vol: 48818.1m³

Step 17400/29999, Sim Time: 4721.914s (+1.352e-01s), Max Depth: 0.7796834862m, Max Vel: 9.9999999990m/s, Area: 511875.0m², Vol: 48880.0m³

Step 17500/29999, Sim Time: 4735.438s (+1.352e-01s), Max Depth: 0.7797512046m, Max Vel: 9.9999999990m/s, Area: 514025.0m², Vol: 48907.5m³

Step 17600/29999, Sim Time: 4748.960s (+1.352e-01s), Max Depth: 0.7796250670m, Max Vel: 9.9999999990m/s, Area: 514475.0m², Vol: 48929.0m³

Step 17700/29999, Sim Time: 4762.482s (+1.352e-01s), Max Depth: 0.7795943707m, Max Vel: 9.9999999990m/s, Area: 515450.0m², Vol: 48966.3m³

Step 17800/29999, Sim Time: 4776.002s (+1.352e-01s), Max Depth: 0.7797726465m, Max Vel: 9.9999999990m/s, Area: 515775.0m², Vol: 49030.2m³

Step 17900/29999, Sim Time: 4789.522s (+1.352e-01s), Max Depth: 0.7795037854m, Max Vel: 9.9999999990m/s, Area: 515700.0m², Vol: 49076.7m³

Step 18000/29999, Sim Time: 4803.040s (+1.352e-01s), Max Depth: 0.7798726232m, Max Vel: 9.9999999990m/s, Area: 517625.0m², Vol: 49101.6m³

Step 18100/29999, Sim Time: 4816.556s (+1.352e-01s), Max Depth: 0.7795518739m, Max Vel: 9.9999999990m/s, Area: 520175.0m², Vol: 49115.3m³

Step 18200/29999, Sim Time: 4830.070s (+1.351e-01s), Max Depth: 0.7798146292m, Max Vel: 9.9999999990m/s, Area: 520825.0m², Vol: 49188.5m³

Step 18300/29999, Sim Time: 4843.584s (+1.351e-01s), Max Depth: 0.7795171108m, Max Vel: 9.9999999990m/s, Area: 520175.0m², Vol: 49205.4m³

Step 18400/29999, Sim Time: 4857.096s (+1.351e-01s), Max Depth: 0.7795336747m, Max Vel: 9.9999999990m/s, Area: 521400.0m², Vol: 49224.6m³

Step 18500/29999, Sim Time: 4870.607s (+1.351e-01s), Max Depth: 0.7798640627m, Max Vel: 9.9999999990m/s, Area: 520275.0m², Vol: 49283.7m³

Step 18600/29999, Sim Time: 4884.116s (+1.351e-01s), Max Depth: 0.7797270252m, Max Vel: 9.9999999990m/s, Area: 519975.0m², Vol: 49277.6m³

Step 18700/29999, Sim Time: 4897.622s (+1.350e-01s), Max Depth: 0.7800690544m, Max Vel: 9.9999999990m/s, Area: 521725.0m², Vol: 49285.3m³

Step 18800/29999, Sim Time: 4911.124s (+1.350e-01s), Max Depth: 0.7798507753m, Max Vel: 9.9999999990m/s, Area: 523675.0m², Vol: 49210.5m³

Step 18900/29999, Sim Time: 4924.620s (+1.349e-01s), Max Depth: 0.7797451889m, Max Vel: 9.9999999990m/s, Area: 521700.0m², Vol: 49053.4m³

Step 19000/29999, Sim Time: 4938.109s (+1.348e-01s), Max Depth: 0.7799443303m, Max Vel: 9.9999999990m/s, Area: 523675.0m², Vol: 48908.3m³

Step 19100/29999, Sim Time: 4951.588s (+1.348e-01s), Max Depth: 0.7800835551m, Max Vel: 9.9999999990m/s, Area: 523200.0m², Vol: 48712.4m³

Step 19200/29999, Sim Time: 4965.059s (+1.347e-01s), Max Depth: 0.7799609310m, Max Vel: 9.9999999990m/s, Area: 524650.0m², Vol: 48521.7m³

Step 19300/29999, Sim Time: 4978.520s (+1.346e-01s), Max Depth: 0.7798223977m, Max Vel: 9.9999999990m/s, Area: 524875.0m², Vol: 48316.7m³

Step 19400/29999, Sim Time: 4991.972s (+1.345e-01s), Max Depth: 0.7800048699m, Max Vel: 9.9999999990m/s, Area: 523250.0m², Vol: 48119.5m³

Step 19500/29999, Sim Time: 5005.414s (+1.344e-01s), Max Depth: 0.7797631804m, Max Vel: 9.9999999990m/s, Area: 525100.0m², Vol: 47942.3m³

Step 19600/29999, Sim Time: 5018.848s (+1.343e-01s), Max Depth: 0.7802210360m, Max Vel: 9.9999999990m/s, Area: 527000.0m², Vol: 47860.0m³

Step 19700/29999, Sim Time: 5032.274s (+1.342e-01s), Max Depth: 0.7800656544m, Max Vel: 9.9999999990m/s, Area: 525825.0m², Vol: 47702.8m³

Step 19800/29999, Sim Time: 5045.691s (+1.341e-01s), Max Depth: 0.7804899176m, Max Vel: 9.9999999990m/s, Area: 524950.0m², Vol: 47521.6m³

Step 19900/29999, Sim Time: 5059.099s (+1.340e-01s), Max Depth: 0.7803619982m, Max Vel: 9.9999999990m/s, Area: 526525.0m², Vol: 47409.5m³

Step 20000/29999, Sim Time: 5072.501s (+1.340e-01s), Max Depth: 0.7785303836m, Max Vel: 9.9999999990m/s, Area: 527725.0m², Vol: 47281.5m³

Step 20100/29999, Sim Time: 5085.899s (+1.340e-01s), Max Depth: 0.7802277299m, Max Vel: 9.9999999990m/s, Area: 527400.0m², Vol: 47365.8m³

Step 20200/29999, Sim Time: 5099.292s (+1.339e-01s), Max Depth: 0.7801082813m, Max Vel: 9.9999999990m/s, Area: 527750.0m², Vol: 47297.4m³

Step 20300/29999, Sim Time: 5112.681s (+1.339e-01s), Max Depth: 0.7787659168m, Max Vel: 9.9999999990m/s, Area: 528300.0m², Vol: 47196.6m³

Step 20400/29999, Sim Time: 5126.065s (+1.338e-01s), Max Depth: 0.7802262633m, Max Vel: 9.9999999990m/s, Area: 528125.0m², Vol: 47282.5m³

Step 20500/29999, Sim Time: 5139.445s (+1.338e-01s), Max Depth: 0.7795414193m, Max Vel: 9.9999999990m/s, Area: 527450.0m², Vol: 47199.5m³

Step 20600/29999, Sim Time: 5152.821s (+1.337e-01s), Max Depth: 0.7801080903m, Max Vel: 9.9999999990m/s, Area: 529850.0m², Vol: 47203.8m³

Step 20700/29999, Sim Time: 5166.193s (+1.337e-01s), Max Depth: 0.7813930769m, Max Vel: 9.9999999990m/s, Area: 531000.0m², Vol: 47294.7m³

Step 20800/29999, Sim Time: 5179.562s (+1.337e-01s), Max Depth: 0.7810634554m, Max Vel: 9.9999999990m/s, Area: 531100.0m², Vol: 47270.9m³

Step 20900/29999, Sim Time: 5192.927s (+1.336e-01s), Max Depth: 0.7809572555m, Max Vel: 9.9999999990m/s, Area: 533150.0m², Vol: 47232.8m³

Step 21000/29999, Sim Time: 5206.288s (+1.336e-01s), Max Depth: 0.7791032063m, Max Vel: 9.9999999990m/s, Area: 533275.0m², Vol: 47122.0m³

Step 21100/29999, Sim Time: 5219.647s (+1.336e-01s), Max Depth: 0.7807088477m, Max Vel: 9.9999999990m/s, Area: 534425.0m², Vol: 47203.6m³

Step 21200/29999, Sim Time: 5233.002s (+1.335e-01s), Max Depth: 0.7790083997m, Max Vel: 9.9999999990m/s, Area: 532875.0m², Vol: 47108.8m³

Step 21300/29999, Sim Time: 5246.354s (+1.335e-01s), Max Depth: 0.7804704990m, Max Vel: 9.9999999990m/s, Area: 532850.0m², Vol: 47243.0m³

Step 21400/29999, Sim Time: 5259.706s (+1.335e-01s), Max Depth: 0.7787655881m, Max Vel: 9.9999999990m/s, Area: 531275.0m², Vol: 47169.9m³

Step 21500/29999, Sim Time: 5273.055s (+1.335e-01s), Max Depth: 0.7789931282m, Max Vel: 9.9999999990m/s, Area: 533625.0m², Vol: 47218.9m³

Step 21600/29999, Sim Time: 5286.403s (+1.335e-01s), Max Depth: 0.7799793113m, Max Vel: 9.9999999990m/s, Area: 534225.0m², Vol: 47315.5m³

Step 21700/29999, Sim Time: 5299.749s (+1.335e-01s), Max Depth: 0.7796991146m, Max Vel: 9.9999999990m/s, Area: 534725.0m², Vol: 47331.7m³

Step 21800/29999, Sim Time: 5313.093s (+1.334e-01s), Max Depth: 0.7802456863m, Max Vel: 9.9999999990m/s, Area: 535350.0m², Vol: 47393.6m³

Step 21900/29999, Sim Time: 5326.436s (+1.334e-01s), Max Depth: 0.7811293760m, Max Vel: 9.9999999990m/s, Area: 536650.0m², Vol: 47461.3m³

Step 22000/29999, Sim Time: 5339.775s (+1.334e-01s), Max Depth: 0.7802121200m, Max Vel: 9.9999999990m/s, Area: 537150.0m², Vol: 47378.6m³

Step 22100/29999, Sim Time: 5353.111s (+1.333e-01s), Max Depth: 0.7814376109m, Max Vel: 9.9999999990m/s, Area: 535175.0m², Vol: 47424.7m³

Step 22200/29999, Sim Time: 5366.443s (+1.333e-01s), Max Depth: 0.7812501563m, Max Vel: 9.9999999990m/s, Area: 535825.0m², Vol: 47420.2m³

Step 22300/29999, Sim Time: 5379.773s (+1.333e-01s), Max Depth: 0.7789193726m, Max Vel: 9.9999999990m/s, Area: 536300.0m², Vol: 47279.0m³

Step 22400/29999, Sim Time: 5393.100s (+1.332e-01s), Max Depth: 0.7806768356m, Max Vel: 9.9999999990m/s, Area: 536625.0m², Vol: 47367.5m³

Step 22500/29999, Sim Time: 5406.423s (+1.332e-01s), Max Depth: 0.7804618045m, Max Vel: 9.9999999990m/s, Area: 537075.0m², Vol: 47337.2m³

Step 22600/29999, Sim Time: 5419.743s (+1.332e-01s), Max Depth: 0.7796289728m, Max Vel: 9.9999999990m/s, Area: 538650.0m², Vol: 47294.7m³

Step 22700/29999, Sim Time: 5433.061s (+1.332e-01s), Max Depth: 0.7803457833m, Max Vel: 9.9999999990m/s, Area: 539700.0m², Vol: 47343.2m³

Step 22800/29999, Sim Time: 5446.375s (+1.331e-01s), Max Depth: 0.7787584631m, Max Vel: 9.9999999990m/s, Area: 540250.0m², Vol: 47232.7m³

Step 22900/29999, Sim Time: 5459.686s (+1.331e-01s), Max Depth: 0.7797618008m, Max Vel: 9.9999999990m/s, Area: 539875.0m², Vol: 47261.4m³

Step 23000/29999, Sim Time: 5472.993s (+1.330e-01s), Max Depth: 0.7809254539m, Max Vel: 9.9999999990m/s, Area: 541150.0m², Vol: 47311.2m³

Step 23100/29999, Sim Time: 5486.296s (+1.330e-01s), Max Depth: 0.7812217067m, Max Vel: 9.9999999990m/s, Area: 540800.0m², Vol: 47300.0m³

Step 23200/29999, Sim Time: 5499.594s (+1.330e-01s), Max Depth: 0.7799281304m, Max Vel: 9.9999999990m/s, Area: 540650.0m², Vol: 47166.3m³

Step 23300/29999, Sim Time: 5512.887s (+1.329e-01s), Max Depth: 0.7807089118m, Max Vel: 9.9999999990m/s, Area: 543350.0m², Vol: 47156.0m³

Step 23400/29999, Sim Time: 5526.175s (+1.329e-01s), Max Depth: 0.7811972999m, Max Vel: 9.9999999990m/s, Area: 542500.0m², Vol: 47136.9m³

Step 23500/29999, Sim Time: 5539.458s (+1.328e-01s), Max Depth: 0.7813284333m, Max Vel: 9.9999999990m/s, Area: 544200.0m², Vol: 47086.6m³

Step 23600/29999, Sim Time: 5552.735s (+1.327e-01s), Max Depth: 0.7807268953m, Max Vel: 9.9999999990m/s, Area: 542550.0m², Vol: 46998.3m³

Step 23700/29999, Sim Time: 5566.007s (+1.327e-01s), Max Depth: 0.7810016487m, Max Vel: 9.9999999990m/s, Area: 542225.0m², Vol: 47007.8m³

Step 23800/29999, Sim Time: 5579.275s (+1.327e-01s), Max Depth: 0.7802284604m, Max Vel: 9.9999999990m/s, Area: 542175.0m², Vol: 46955.7m³

Step 23900/29999, Sim Time: 5592.538s (+1.326e-01s), Max Depth: 0.7812587304m, Max Vel: 9.9999999990m/s, Area: 544575.0m², Vol: 46993.7m³

Step 24000/29999, Sim Time: 5605.795s (+1.325e-01s), Max Depth: 0.7808831569m, Max Vel: 9.9999999990m/s, Area: 544225.0m², Vol: 46931.1m³

Step 24100/29999, Sim Time: 5619.048s (+1.325e-01s), Max Depth: 0.7813893632m, Max Vel: 9.9999999990m/s, Area: 544825.0m², Vol: 46971.5m³

Step 24200/29999, Sim Time: 5632.297s (+1.325e-01s), Max Depth: 0.7786398684m, Max Vel: 9.9999999990m/s, Area: 544550.0m², Vol: 46850.6m³

Step 24300/29999, Sim Time: 5645.544s (+1.324e-01s), Max Depth: 0.7795804939m, Max Vel: 9.9999999990m/s, Area: 544825.0m², Vol: 46937.9m³

Step 24400/29999, Sim Time: 5658.788s (+1.324e-01s), Max Depth: 0.7812209235m, Max Vel: 9.9999999990m/s, Area: 545350.0m², Vol: 47105.4m³

Step 24500/29999, Sim Time: 5672.029s (+1.324e-01s), Max Depth: 0.7793206339m, Max Vel: 9.9999999990m/s, Area: 547125.0m², Vol: 47013.2m³

Step 24600/29999, Sim Time: 5685.268s (+1.324e-01s), Max Depth: 0.7789785902m, Max Vel: 9.9999999990m/s, Area: 547675.0m², Vol: 47095.4m³

Step 24700/29999, Sim Time: 5698.506s (+1.324e-01s), Max Depth: 0.7807194471m, Max Vel: 9.9999999990m/s, Area: 548950.0m², Vol: 47247.2m³

Step 24800/29999, Sim Time: 5711.740s (+1.323e-01s), Max Depth: 0.7811858582m, Max Vel: 9.9999999990m/s, Area: 550400.0m², Vol: 47295.9m³

Step 24900/29999, Sim Time: 5724.972s (+1.323e-01s), Max Depth: 0.7794902219m, Max Vel: 9.9999999990m/s, Area: 550225.0m², Vol: 47245.4m³

Step 25000/29999, Sim Time: 5738.201s (+1.323e-01s), Max Depth: 0.7794702384m, Max Vel: 9.9999999990m/s, Area: 551475.0m², Vol: 47361.6m³

Step 25100/29999, Sim Time: 5751.430s (+1.323e-01s), Max Depth: 0.7795097993m, Max Vel: 9.9999999990m/s, Area: 551900.0m², Vol: 47434.5m³

Step 25200/29999, Sim Time: 5764.656s (+1.322e-01s), Max Depth: 0.7814187358m, Max Vel: 9.9999999990m/s, Area: 550250.0m², Vol: 47586.9m³

Step 25300/29999, Sim Time: 5777.879s (+1.322e-01s), Max Depth: 0.7809205896m, Max Vel: 9.9999999990m/s, Area: 550425.0m², Vol: 47578.7m³

Step 25400/29999, Sim Time: 5791.097s (+1.322e-01s), Max Depth: 0.7808670569m, Max Vel: 9.9999999990m/s, Area: 549950.0m², Vol: 47533.5m³

Step 25500/29999, Sim Time: 5804.309s (+1.321e-01s), Max Depth: 0.7791749310m, Max Vel: 9.9999999990m/s, Area: 551325.0m², Vol: 47376.5m³

Step 25600/29999, Sim Time: 5817.518s (+1.321e-01s), Max Depth: 0.7795796602m, Max Vel: 9.9999999990m/s, Area: 550325.0m², Vol: 47482.2m³

Step 25700/29999, Sim Time: 5830.724s (+1.320e-01s), Max Depth: 0.7805386631m, Max Vel: 9.9999999990m/s, Area: 550150.0m², Vol: 47498.8m³

Step 25800/29999, Sim Time: 5843.922s (+1.319e-01s), Max Depth: 0.7799143754m, Max Vel: 9.9999999990m/s, Area: 549125.0m², Vol: 47334.3m³

Step 25900/29999, Sim Time: 5857.114s (+1.319e-01s), Max Depth: 0.7790689834m, Max Vel: 9.9999999990m/s, Area: 549350.0m², Vol: 47287.0m³

Step 26000/29999, Sim Time: 5870.303s (+1.319e-01s), Max Depth: 0.7793943695m, Max Vel: 9.9999999990m/s, Area: 551350.0m², Vol: 47320.5m³

Step 26100/29999, Sim Time: 5883.486s (+1.318e-01s), Max Depth: 0.7814876569m, Max Vel: 9.9999999990m/s, Area: 551125.0m², Vol: 47303.8m³

Step 26200/29999, Sim Time: 5896.659s (+1.317e-01s), Max Depth: 0.7795318938m, Max Vel: 9.9999999990m/s, Area: 551550.0m², Vol: 47009.4m³

Step 26300/29999, Sim Time: 5909.823s (+1.316e-01s), Max Depth: 0.7809336924m, Max Vel: 9.9999999990m/s, Area: 550750.0m², Vol: 46934.7m³

Step 26400/29999, Sim Time: 5922.979s (+1.315e-01s), Max Depth: 0.7788236007m, Max Vel: 9.9999999990m/s, Area: 551575.0m², Vol: 46785.7m³

Step 26500/29999, Sim Time: 5936.130s (+1.315e-01s), Max Depth: 0.7789870333m, Max Vel: 9.9999999990m/s, Area: 551450.0m², Vol: 46722.8m³

Step 26600/29999, Sim Time: 5949.273s (+1.314e-01s), Max Depth: 0.7805714118m, Max Vel: 9.9999999990m/s, Area: 551600.0m², Vol: 46690.9m³

Step 26700/29999, Sim Time: 5962.409s (+1.313e-01s), Max Depth: 0.7813347883m, Max Vel: 9.9999999990m/s, Area: 551425.0m², Vol: 46707.9m³

Step 26800/29999, Sim Time: 5975.543s (+1.313e-01s), Max Depth: 0.7793404309m, Max Vel: 9.9999999990m/s, Area: 551925.0m², Vol: 46681.7m³

Step 26900/29999, Sim Time: 5988.675s (+1.313e-01s), Max Depth: 0.7788058949m, Max Vel: 9.9999999990m/s, Area: 553000.0m², Vol: 46678.3m³

Step 27000/29999, Sim Time: 6001.804s (+1.313e-01s), Max Depth: 0.7796493647m, Max Vel: 9.9999999990m/s, Area: 553050.0m², Vol: 46765.7m³

Step 27100/29999, Sim Time: 6014.932s (+1.313e-01s), Max Depth: 0.7790097731m, Max Vel: 9.9999999990m/s, Area: 555825.0m², Vol: 46806.0m³

Step 27200/29999, Sim Time: 6028.060s (+1.313e-01s), Max Depth: 0.7813496237m, Max Vel: 9.9999999990m/s, Area: 555450.0m², Vol: 47076.2m³

Step 27300/29999, Sim Time: 6041.189s (+1.313e-01s), Max Depth: 0.7788228779m, Max Vel: 9.9999999990m/s, Area: 556300.0m², Vol: 47033.6m³

Step 27400/29999, Sim Time: 6054.318s (+1.313e-01s), Max Depth: 0.7798187291m, Max Vel: 9.9999999990m/s, Area: 555925.0m², Vol: 47146.7m³

Step 27500/29999, Sim Time: 6067.445s (+1.313e-01s), Max Depth: 0.7797361358m, Max Vel: 9.9999999990m/s, Area: 555250.0m², Vol: 47231.2m³

Step 27600/29999, Sim Time: 6080.573s (+1.313e-01s), Max Depth: 0.7789512079m, Max Vel: 9.9999999990m/s, Area: 553800.0m², Vol: 47258.1m³

Step 27700/29999, Sim Time: 6093.701s (+1.313e-01s), Max Depth: 0.7796881479m, Max Vel: 9.9999999990m/s, Area: 554875.0m², Vol: 47372.4m³

Step 27800/29999, Sim Time: 6106.828s (+1.313e-01s), Max Depth: 0.7803893146m, Max Vel: 9.9999999990m/s, Area: 553175.0m², Vol: 47454.9m³

Step 27900/29999, Sim Time: 6119.954s (+1.313e-01s), Max Depth: 0.7785007461m, Max Vel: 9.9999999990m/s, Area: 554275.0m², Vol: 47410.2m³

Step 28000/29999, Sim Time: 6133.080s (+1.313e-01s), Max Depth: 0.7786612812m, Max Vel: 9.9999999990m/s, Area: 554700.0m², Vol: 47488.6m³

Step 28100/29999, Sim Time: 6146.206s (+1.312e-01s), Max Depth: 0.7790401204m, Max Vel: 9.9999999990m/s, Area: 556300.0m², Vol: 47549.3m³

Step 28200/29999, Sim Time: 6159.331s (+1.313e-01s), Max Depth: 0.7789934535m, Max Vel: 9.9999999990m/s, Area: 555875.0m², Vol: 47631.3m³

Step 28300/29999, Sim Time: 6172.455s (+1.312e-01s), Max Depth: 0.7803799958m, Max Vel: 9.9999999990m/s, Area: 555350.0m², Vol: 47736.1m³

Step 28400/29999, Sim Time: 6185.580s (+1.312e-01s), Max Depth: 0.7801134513m, Max Vel: 9.9999999990m/s, Area: 555550.0m², Vol: 47804.5m³

Step 28500/29999, Sim Time: 6198.704s (+1.313e-01s), Max Depth: 0.7813528343m, Max Vel: 9.9999999990m/s, Area: 556300.0m², Vol: 47965.0m³

Step 28600/29999, Sim Time: 6211.829s (+1.312e-01s), Max Depth: 0.7805683941m, Max Vel: 9.9999999990m/s, Area: 554200.0m², Vol: 47940.6m³

Step 28700/29999, Sim Time: 6224.953s (+1.312e-01s), Max Depth: 0.7805168289m, Max Vel: 9.9999999990m/s, Area: 555400.0m², Vol: 48003.0m³

Step 28800/29999, Sim Time: 6238.077s (+1.312e-01s), Max Depth: 0.7812919546m, Max Vel: 9.9999999990m/s, Area: 554675.0m², Vol: 48107.9m³

Step 28900/29999, Sim Time: 6251.202s (+1.312e-01s), Max Depth: 0.7811165717m, Max Vel: 9.9999999990m/s, Area: 556675.0m², Vol: 48174.7m³

Step 29000/29999, Sim Time: 6264.326s (+1.312e-01s), Max Depth: 0.7786491762m, Max Vel: 9.9999999990m/s, Area: 556575.0m², Vol: 48046.9m³

Step 29100/29999, Sim Time: 6277.450s (+1.312e-01s), Max Depth: 0.7809399885m, Max Vel: 9.9999999990m/s, Area: 556150.0m², Vol: 48233.0m³

Step 29200/29999, Sim Time: 6290.573s (+1.312e-01s), Max Depth: 0.7809432090m, Max Vel: 9.9999999990m/s, Area: 557025.0m², Vol: 48298.6m³

Step 29300/29999, Sim Time: 6303.697s (+1.312e-01s), Max Depth: 0.7798617268m, Max Vel: 9.9999999990m/s, Area: 557300.0m², Vol: 48280.8m³

Step 29400/29999, Sim Time: 6316.820s (+1.312e-01s), Max Depth: 0.7806388344m, Max Vel: 9.9999999990m/s, Area: 558600.0m², Vol: 48362.9m³

Step 29500/29999, Sim Time: 6329.942s (+1.312e-01s), Max Depth: 0.7806219305m, Max Vel: 9.9999999990m/s, Area: 557525.0m², Vol: 48383.3m³

Step 29600/29999, Sim Time: 6343.063s (+1.312e-01s), Max Depth: 0.7787545913m, Max Vel: 9.9999999990m/s, Area: 560300.0m², Vol: 48321.3m³

Step 29700/29999, Sim Time: 6356.184s (+1.312e-01s), Max Depth: 0.7807082881m, Max Vel: 9.9999999990m/s, Area: 558325.0m², Vol: 48484.8m³

Step 29800/29999, Sim Time: 6369.305s (+1.312e-01s), Max Depth: 0.7802299359m, Max Vel: 9.9999999990m/s, Area: 560075.0m², Vol: 48477.3m³

Step 29900/29999, Sim Time: 6382.425s (+1.312e-01s), Max Depth: 0.7792252511m, Max Vel: 9.9999999990m/s, Area: 560450.0m², Vol: 48463.0m³

Step 29999/29999, Sim Time: 6395.413s (+1.312e-01s), Max Depth: 0.7811160104m, Max Vel: 9.9999999990m/s, Area: 560875.0m², Vol: 48619.2m³

Simulation finished 30000 steps in 240.25 seconds (wall clock).

Final Maximum Flood Extent Area: 990800.00 m²

Peak Recorded Water Depth Anywhere: 1.137 m

Phase 2 max depth: 0.781 m, steady state max depth: 0.734 m, rate of increase: 0.000007 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain11\_875.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain11\_875\_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 12.5 --output-freq 100 -o result\_rain12\_5.mp4 --save --source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 162.86 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26s. Stored steady\_state\_h.

--- Starting Phase 2: Rainfall & WSE Monitoring (30000 steps) ---

Added rainfall: rate=3.4722222222222224e-06 m/s, duration=7500 steps

Added rainfall for Phase 2: 12.5 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337689008m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39721.3m³

Step 100/29999, Sim Time: 55.080s (+5.453e-01s), Max Depth: 0.7339861067m, Max Vel: 0.5258229265m/s, Area: 130825.0m², Vol: 39901.2m³

Step 200/29999, Sim Time: 109.606s (+5.452e-01s), Max Depth: 0.7341981125m, Max Vel: 0.5260232805m/s, Area: 130850.0m², Vol: 40079.8m³

Step 300/29999, Sim Time: 164.122s (+5.451e-01s), Max Depth: 0.7344199215m, Max Vel: 0.5263037605m/s, Area: 130900.0m², Vol: 40257.7m³

Step 400/29999, Sim Time: 218.626s (+5.450e-01s), Max Depth: 0.7346335894m, Max Vel: 0.5264759778m/s, Area: 130925.0m², Vol: 40435.0m³

Step 500/29999, Sim Time: 273.121s (+5.449e-01s), Max Depth: 0.7348369220m, Max Vel: 0.5266440885m/s, Area: 131000.0m², Vol: 40611.9m³

Step 600/29999, Sim Time: 327.608s (+5.448e-01s), Max Depth: 0.7350230379m, Max Vel: 0.5267975165m/s, Area: 131050.0m², Vol: 40788.5m³

Step 700/29999, Sim Time: 382.086s (+5.447e-01s), Max Depth: 0.7351891247m, Max Vel: 0.5269504390m/s, Area: 131150.0m², Vol: 40964.9m³

Step 800/29999, Sim Time: 436.557s (+5.447e-01s), Max Depth: 0.7353328678m, Max Vel: 0.5271341765m/s, Area: 131250.0m², Vol: 41141.6m³

Step 900/29999, Sim Time: 491.021s (+5.446e-01s), Max Depth: 0.7354553992m, Max Vel: 0.5273068447m/s, Area: 131300.0m², Vol: 41318.1m³

Step 1000/29999, Sim Time: 545.478s (+5.445e-01s), Max Depth: 0.7355501153m, Max Vel: 0.5274854365m/s, Area: 131300.0m², Vol: 41494.0m³

Step 1100/29999, Sim Time: 599.930s (+5.445e-01s), Max Depth: 0.7356194817m, Max Vel: 0.5276659787m/s, Area: 131375.0m², Vol: 41669.5m³

Step 1200/29999, Sim Time: 654.377s (+5.444e-01s), Max Depth: 0.7356635219m, Max Vel: 0.5278469271m/s, Area: 131375.0m², Vol: 41844.5m³

Step 1300/29999, Sim Time: 708.820s (+5.444e-01s), Max Depth: 0.7356834466m, Max Vel: 0.5280314273m/s, Area: 131500.0m², Vol: 42019.3m³

Step 1400/29999, Sim Time: 763.259s (+5.444e-01s), Max Depth: 0.7356797562m, Max Vel: 0.5282176665m/s, Area: 131600.0m², Vol: 42194.1m³

Step 1500/29999, Sim Time: 817.696s (+5.444e-01s), Max Depth: 0.7356538859m, Max Vel: 0.5284125630m/s, Area: 131600.0m², Vol: 42368.7m³

Step 1600/29999, Sim Time: 872.130s (+5.443e-01s), Max Depth: 0.7356092145m, Max Vel: 0.5286372086m/s, Area: 131650.0m², Vol: 42543.1m³

Step 1700/29999, Sim Time: 926.562s (+5.443e-01s), Max Depth: 0.7355447515m, Max Vel: 0.5288420156m/s, Area: 131675.0m², Vol: 42717.1m³

Step 1800/29999, Sim Time: 980.993s (+5.443e-01s), Max Depth: 0.7354661100m, Max Vel: 0.5290850374m/s, Area: 131775.0m², Vol: 42890.8m³

Step 1900/29999, Sim Time: 1035.422s (+5.443e-01s), Max Depth: 0.7353744487m, Max Vel: 0.5293091973m/s, Area: 131800.0m², Vol: 43064.2m³

Step 2000/29999, Sim Time: 1089.851s (+5.443e-01s), Max Depth: 0.7352660444m, Max Vel: 0.5295358776m/s, Area: 131875.0m², Vol: 43237.1m³

Step 2100/29999, Sim Time: 1144.279s (+5.443e-01s), Max Depth: 0.7351404280m, Max Vel: 0.5297590035m/s, Area: 131875.0m², Vol: 43409.8m³

Step 2200/29999, Sim Time: 1198.708s (+5.443e-01s), Max Depth: 0.7349993004m, Max Vel: 0.5299787188m/s, Area: 131925.0m², Vol: 43582.1m³

Step 2300/29999, Sim Time: 1253.138s (+5.443e-01s), Max Depth: 0.7348453680m, Max Vel: 0.5301978007m/s, Area: 131950.0m², Vol: 43754.0m³

Step 2400/29999, Sim Time: 1307.569s (+5.443e-01s), Max Depth: 0.7346808833m, Max Vel: 0.5304134260m/s, Area: 132025.0m², Vol: 43925.6m³

Step 2500/29999, Sim Time: 1362.001s (+5.443e-01s), Max Depth: 0.7345078070m, Max Vel: 0.5306248227m/s, Area: 132075.0m², Vol: 44097.0m³

Step 2600/29999, Sim Time: 1416.436s (+5.444e-01s), Max Depth: 0.7343286692m, Max Vel: 0.5308306507m/s, Area: 132125.0m², Vol: 44268.4m³

Step 2700/29999, Sim Time: 1470.872s (+5.444e-01s), Max Depth: 0.7341457541m, Max Vel: 0.5310298973m/s, Area: 132125.0m², Vol: 44439.7m³

Step 2800/29999, Sim Time: 1525.311s (+5.444e-01s), Max Depth: 0.7339609850m, Max Vel: 0.5312222758m/s, Area: 132125.0m², Vol: 44610.8m³

Step 2900/29999, Sim Time: 1579.753s (+5.444e-01s), Max Depth: 0.7337762483m, Max Vel: 0.5314093812m/s, Area: 132175.0m², Vol: 44781.6m³

Step 3000/29999, Sim Time: 1634.197s (+5.445e-01s), Max Depth: 0.7335935415m, Max Vel: 0.5315922766m/s, Area: 132250.0m², Vol: 44952.4m³

Step 3100/29999, Sim Time: 1688.644s (+5.445e-01s), Max Depth: 0.7334142176m, Max Vel: 0.5317699909m/s, Area: 132300.0m², Vol: 45123.2m³

Step 3200/29999, Sim Time: 1743.093s (+5.445e-01s), Max Depth: 0.7332395680m, Max Vel: 0.5319435387m/s, Area: 132400.0m², Vol: 45294.3m³

Step 3300/29999, Sim Time: 1797.544s (+5.445e-01s), Max Depth: 0.7330709651m, Max Vel: 0.5321225783m/s, Area: 132475.0m², Vol: 45465.5m³

Step 3400/29999, Sim Time: 1851.998s (+5.445e-01s), Max Depth: 0.7329099326m, Max Vel: 0.5323087059m/s, Area: 132500.0m², Vol: 45637.1m³

Step 3500/29999, Sim Time: 1906.453s (+5.446e-01s), Max Depth: 0.7327570111m, Max Vel: 0.5324860231m/s, Area: 132500.0m², Vol: 45808.9m³

Step 3600/29999, Sim Time: 1960.910s (+5.446e-01s), Max Depth: 0.7326109119m, Max Vel: 0.5326612007m/s, Area: 132550.0m², Vol: 45980.6m³

Step 3700/29999, Sim Time: 2015.368s (+5.446e-01s), Max Depth: 0.7324724686m, Max Vel: 0.5328338913m/s, Area: 132600.0m², Vol: 46152.5m³

Step 3800/29999, Sim Time: 2069.828s (+5.446e-01s), Max Depth: 0.7323418349m, Max Vel: 0.5330038150m/s, Area: 132575.0m², Vol: 46324.6m³

Step 3900/29999, Sim Time: 2124.289s (+5.446e-01s), Max Depth: 0.7322187956m, Max Vel: 0.5331729818m/s, Area: 132625.0m², Vol: 46496.8m³

Step 4000/29999, Sim Time: 2178.750s (+5.446e-01s), Max Depth: 0.7321032540m, Max Vel: 0.5333423077m/s, Area: 132625.0m², Vol: 46669.1m³

Step 4100/29999, Sim Time: 2231.202s (+4.264e-01s), Max Depth: 0.7319987626m, Max Vel: 1.4514265634m/s, Area: 132700.0m², Vol: 46835.2m³

Step 4200/29999, Sim Time: 2246.130s (+1.380e-01s), Max Depth: 0.7319702070m, Max Vel: 9.9999999990m/s, Area: 132650.0m², Vol: 46884.6m³

Step 4300/29999, Sim Time: 2259.931s (+1.380e-01s), Max Depth: 0.7319442334m, Max Vel: 9.9999999990m/s, Area: 132725.0m², Vol: 46930.7m³

Step 4400/29999, Sim Time: 2273.733s (+1.380e-01s), Max Depth: 0.7319186639m, Max Vel: 9.9999999996m/s, Area: 132775.0m², Vol: 46979.2m³

Step 4500/29999, Sim Time: 2323.891s (+5.446e-01s), Max Depth: 0.7318295520m, Max Vel: 0.5337949035m/s, Area: 132850.0m², Vol: 47138.5m³

Step 4600/29999, Sim Time: 2378.354s (+5.446e-01s), Max Depth: 0.7317418784m, Max Vel: 0.5339620532m/s, Area: 132825.0m², Vol: 47309.5m³

Step 4700/29999, Sim Time: 2432.816s (+5.446e-01s), Max Depth: 0.7316755782m, Max Vel: 0.5341257443m/s, Area: 132850.0m², Vol: 47481.3m³

Step 4800/29999, Sim Time: 2487.277s (+5.446e-01s), Max Depth: 0.7316323243m, Max Vel: 0.5342809416m/s, Area: 132875.0m², Vol: 47653.4m³

Step 4900/29999, Sim Time: 2541.737s (+5.446e-01s), Max Depth: 0.7316083436m, Max Vel: 0.5344304316m/s, Area: 132850.0m², Vol: 47826.0m³

Step 5000/29999, Sim Time: 2596.195s (+5.446e-01s), Max Depth: 0.7315983181m, Max Vel: 0.5345766091m/s, Area: 132825.0m², Vol: 47998.6m³

Step 5100/29999, Sim Time: 2650.650s (+5.445e-01s), Max Depth: 0.7315970929m, Max Vel: 0.5347254666m/s, Area: 132825.0m², Vol: 48171.4m³

Step 5200/29999, Sim Time: 2705.103s (+5.445e-01s), Max Depth: 0.7316007740m, Max Vel: 0.5348801776m/s, Area: 132875.0m², Vol: 48344.2m³

Step 5300/29999, Sim Time: 2748.171s (+3.259e-01s), Max Depth: 0.7316044381m, Max Vel: 2.7120293179m/s, Area: 132925.0m², Vol: 48481.0m³

Step 5400/29999, Sim Time: 2776.040s (+2.440e-01s), Max Depth: 0.7316064185m, Max Vel: 4.5088097897m/s, Area: 133000.0m², Vol: 48569.8m³

Step 5500/29999, Sim Time: 2798.197s (+2.032e-01s), Max Depth: 0.7316078251m, Max Vel: 5.9452601749m/s, Area: 133000.0m², Vol: 48640.4m³

Step 5600/29999, Sim Time: 2817.148s (+1.777e-01s), Max Depth: 0.7316095446m, Max Vel: 7.1785250076m/s, Area: 133050.0m², Vol: 48700.7m³

Step 5700/29999, Sim Time: 2833.973s (+1.599e-01s), Max Depth: 0.7316113912m, Max Vel: 8.2761906444m/s, Area: 133075.0m², Vol: 48754.4m³

Step 5800/29999, Sim Time: 2849.258s (+1.465e-01s), Max Depth: 0.7316213197m, Max Vel: 9.2749884419m/s, Area: 133075.0m², Vol: 48803.1m³

Step 5900/29999, Sim Time: 2863.381s (+1.380e-01s), Max Depth: 0.7316201341m, Max Vel: 9.9999999990m/s, Area: 133075.0m², Vol: 48848.2m³

Step 6000/29999, Sim Time: 2877.183s (+1.380e-01s), Max Depth: 0.7316239034m, Max Vel: 9.9999999990m/s, Area: 133100.0m², Vol: 48892.3m³

Step 6100/29999, Sim Time: 2890.986s (+1.380e-01s), Max Depth: 0.7316201315m, Max Vel: 9.9999999990m/s, Area: 133100.0m², Vol: 48936.3m³

Step 6200/29999, Sim Time: 2904.788s (+1.380e-01s), Max Depth: 0.7316096195m, Max Vel: 9.9999999990m/s, Area: 133150.0m², Vol: 48980.4m³

Step 6300/29999, Sim Time: 2918.590s (+1.380e-01s), Max Depth: 0.7315988244m, Max Vel: 9.9999999990m/s, Area: 133650.0m², Vol: 49024.4m³

Step 6400/29999, Sim Time: 2932.393s (+1.380e-01s), Max Depth: 0.7315862586m, Max Vel: 9.9999999990m/s, Area: 134425.0m², Vol: 49068.4m³

Step 6500/29999, Sim Time: 2946.195s (+1.380e-01s), Max Depth: 0.7315713405m, Max Vel: 9.9999999990m/s, Area: 135925.0m², Vol: 49112.1m³

Step 6600/29999, Sim Time: 2959.998s (+1.380e-01s), Max Depth: 0.7315531746m, Max Vel: 9.9999999990m/s, Area: 140100.0m², Vol: 49154.9m³

Step 6700/29999, Sim Time: 2975.182s (+5.444e-01s), Max Depth: 0.7315365850m, Max Vel: 0.5358399283m/s, Area: 151950.0m², Vol: 49200.1m³

Step 6800/29999, Sim Time: 3019.251s (+1.380e-01s), Max Depth: 0.7317084714m, Max Vel: 9.9999999999m/s, Area: 238400.0m², Vol: 49301.8m³

Step 6900/29999, Sim Time: 3043.805s (+1.380e-01s), Max Depth: 0.7320740621m, Max Vel: 9.9999999999m/s, Area: 311850.0m², Vol: 49326.5m³

Step 7000/29999, Sim Time: 3066.783s (+1.380e-01s), Max Depth: 0.7327960856m, Max Vel: 9.9999999999m/s, Area: 360300.0m², Vol: 49334.5m³

Step 7100/29999, Sim Time: 3093.553s (+4.053e-01s), Max Depth: 0.7337567439m, Max Vel: 1.6437797264m/s, Area: 389775.0m², Vol: 49339.6m³

Step 7200/29999, Sim Time: 3130.292s (+3.354e-01s), Max Depth: 0.7352038788m, Max Vel: 2.5412766559m/s, Area: 399725.0m², Vol: 49340.6m³

Step 7300/29999, Sim Time: 3161.343s (+2.889e-01s), Max Depth: 0.7367015457m, Max Vel: 3.3767263443m/s, Area: 405900.0m², Vol: 49344.2m³

Step 7400/29999, Sim Time: 3179.769s (+1.379e-01s), Max Depth: 0.7375905926m, Max Vel: 9.9999999990m/s, Area: 410125.0m², Vol: 49350.9m³

Step 7500/29999, Sim Time: 3193.558s (+1.379e-01s), Max Depth: 0.7382538870m, Max Vel: 9.9999999990m/s, Area: 410050.0m², Vol: 49357.2m³

Step 7600/29999, Sim Time: 3207.347s (+1.379e-01s), Max Depth: 0.7388725181m, Max Vel: 9.9999999990m/s, Area: 398000.0m², Vol: 49321.7m³

Step 7700/29999, Sim Time: 3221.134s (+1.379e-01s), Max Depth: 0.7395185728m, Max Vel: 9.9999999990m/s, Area: 388175.0m², Vol: 49289.4m³

Step 7800/29999, Sim Time: 3234.920s (+1.378e-01s), Max Depth: 0.7405994564m, Max Vel: 9.9999999990m/s, Area: 380025.0m², Vol: 49261.2m³

Step 7900/29999, Sim Time: 3248.703s (+1.378e-01s), Max Depth: 0.7416799770m, Max Vel: 9.9999999990m/s, Area: 371850.0m², Vol: 49236.2m³

Step 8000/29999, Sim Time: 3262.485s (+1.378e-01s), Max Depth: 0.7425508907m, Max Vel: 9.9999999990m/s, Area: 365625.0m², Vol: 49213.1m³

Step 8100/29999, Sim Time: 3276.265s (+1.378e-01s), Max Depth: 0.7434004727m, Max Vel: 9.9999999990m/s, Area: 360975.0m², Vol: 49192.6m³

Step 8200/29999, Sim Time: 3290.043s (+1.378e-01s), Max Depth: 0.7443398779m, Max Vel: 9.9999999990m/s, Area: 357625.0m², Vol: 49178.8m³

Step 8300/29999, Sim Time: 3303.819s (+1.378e-01s), Max Depth: 0.7450371402m, Max Vel: 9.9999999990m/s, Area: 354125.0m², Vol: 49165.8m³

Step 8400/29999, Sim Time: 3317.594s (+1.377e-01s), Max Depth: 0.7454506521m, Max Vel: 9.9999999990m/s, Area: 350600.0m², Vol: 49153.8m³

Step 8500/29999, Sim Time: 3331.369s (+1.377e-01s), Max Depth: 0.7459137410m, Max Vel: 9.9999999990m/s, Area: 347825.0m², Vol: 49143.3m³

Step 8600/29999, Sim Time: 3345.142s (+1.377e-01s), Max Depth: 0.7465471961m, Max Vel: 9.9999999990m/s, Area: 343650.0m², Vol: 49134.9m³

Step 8700/29999, Sim Time: 3358.915s (+1.377e-01s), Max Depth: 0.7471676961m, Max Vel: 9.9999999990m/s, Area: 341525.0m², Vol: 49128.2m³

Step 8800/29999, Sim Time: 3372.686s (+1.377e-01s), Max Depth: 0.7477952255m, Max Vel: 9.9999999990m/s, Area: 338200.0m², Vol: 49122.6m³

Step 8900/29999, Sim Time: 3386.455s (+1.377e-01s), Max Depth: 0.7486473152m, Max Vel: 9.9999999990m/s, Area: 335650.0m², Vol: 49118.8m³

Step 9000/29999, Sim Time: 3400.223s (+1.377e-01s), Max Depth: 0.7494085891m, Max Vel: 9.9999999990m/s, Area: 332800.0m², Vol: 49116.5m³

Step 9100/29999, Sim Time: 3413.989s (+1.377e-01s), Max Depth: 0.7502372694m, Max Vel: 9.9999999990m/s, Area: 332525.0m², Vol: 49116.0m³

Step 9200/29999, Sim Time: 3427.754s (+1.376e-01s), Max Depth: 0.7513201237m, Max Vel: 9.9999999990m/s, Area: 330300.0m², Vol: 49120.4m³

Step 9300/29999, Sim Time: 3441.516s (+1.376e-01s), Max Depth: 0.7524932791m, Max Vel: 9.9999999990m/s, Area: 327350.0m², Vol: 49124.6m³

Step 9400/29999, Sim Time: 3455.276s (+1.376e-01s), Max Depth: 0.7537867298m, Max Vel: 9.9999999990m/s, Area: 327150.0m², Vol: 49131.8m³

Step 9500/29999, Sim Time: 3469.033s (+1.376e-01s), Max Depth: 0.7552456074m, Max Vel: 9.9999999990m/s, Area: 324900.0m², Vol: 49142.2m³

Step 9600/29999, Sim Time: 3482.787s (+1.375e-01s), Max Depth: 0.7572223899m, Max Vel: 9.9999999990m/s, Area: 325500.0m², Vol: 49155.4m³

Step 9700/29999, Sim Time: 3496.537s (+1.375e-01s), Max Depth: 0.7597025677m, Max Vel: 9.9999999999m/s, Area: 322950.0m², Vol: 49172.7m³

Step 9800/29999, Sim Time: 3510.281s (+1.374e-01s), Max Depth: 0.7624989095m, Max Vel: 9.9999999990m/s, Area: 320475.0m², Vol: 49197.5m³

Step 9900/29999, Sim Time: 3524.021s (+1.374e-01s), Max Depth: 0.7649408805m, Max Vel: 9.9999999990m/s, Area: 319500.0m², Vol: 49224.5m³

Step 10000/29999, Sim Time: 3537.755s (+1.373e-01s), Max Depth: 0.7681167888m, Max Vel: 9.9999999990m/s, Area: 319250.0m², Vol: 49254.1m³

Step 10100/29999, Sim Time: 3551.482s (+1.372e-01s), Max Depth: 0.7721244598m, Max Vel: 9.9999999990m/s, Area: 318350.0m², Vol: 49288.4m³

Step 10200/29999, Sim Time: 3565.196s (+1.370e-01s), Max Depth: 0.7845444034m, Max Vel: 9.9999999990m/s, Area: 317325.0m², Vol: 49336.1m³

Step 10300/29999, Sim Time: 3578.888s (+1.369e-01s), Max Depth: 0.7878130984m, Max Vel: 9.9999999990m/s, Area: 316000.0m², Vol: 49392.5m³

Step 10400/29999, Sim Time: 3592.583s (+1.369e-01s), Max Depth: 0.7878228102m, Max Vel: 9.9999999990m/s, Area: 314675.0m², Vol: 49445.3m³

Step 10500/29999, Sim Time: 3606.272s (+1.368e-01s), Max Depth: 0.7923264913m, Max Vel: 9.9999999990m/s, Area: 313625.0m², Vol: 49494.6m³

Step 10600/29999, Sim Time: 3619.950s (+1.367e-01s), Max Depth: 0.7986834517m, Max Vel: 9.9999999990m/s, Area: 312975.0m², Vol: 49547.0m³

Step 10700/29999, Sim Time: 3633.620s (+1.367e-01s), Max Depth: 0.8020278279m, Max Vel: 9.9999999990m/s, Area: 310675.0m², Vol: 49602.7m³

Step 10800/29999, Sim Time: 3647.283s (+1.366e-01s), Max Depth: 0.8063142862m, Max Vel: 9.9999999990m/s, Area: 310550.0m², Vol: 49658.1m³

Step 10900/29999, Sim Time: 3660.938s (+1.365e-01s), Max Depth: 0.8103077232m, Max Vel: 9.9999999990m/s, Area: 310975.0m², Vol: 49708.9m³

Step 11000/29999, Sim Time: 3674.588s (+1.365e-01s), Max Depth: 0.8110050913m, Max Vel: 9.9999999990m/s, Area: 309950.0m², Vol: 49756.5m³

Step 11100/29999, Sim Time: 3688.237s (+1.365e-01s), Max Depth: 0.8121892419m, Max Vel: 9.9999999990m/s, Area: 308000.0m², Vol: 49805.6m³

Step 11200/29999, Sim Time: 3701.881s (+1.364e-01s), Max Depth: 0.8166686183m, Max Vel: 9.9999999990m/s, Area: 308125.0m², Vol: 49858.1m³

Step 11300/29999, Sim Time: 3715.516s (+1.363e-01s), Max Depth: 0.8211278984m, Max Vel: 9.9999999998m/s, Area: 306550.0m², Vol: 49910.5m³

Step 11400/29999, Sim Time: 3729.145s (+1.363e-01s), Max Depth: 0.8226660182m, Max Vel: 9.9999999990m/s, Area: 306600.0m², Vol: 49960.3m³

Step 11500/29999, Sim Time: 3742.772s (+1.363e-01s), Max Depth: 0.8243024525m, Max Vel: 9.9999999990m/s, Area: 306775.0m², Vol: 50005.1m³

Step 11600/29999, Sim Time: 3756.395s (+1.362e-01s), Max Depth: 0.8271936047m, Max Vel: 9.9999999990m/s, Area: 305925.0m², Vol: 50051.1m³

Step 11700/29999, Sim Time: 3770.013s (+1.362e-01s), Max Depth: 0.8294090121m, Max Vel: 9.9999999990m/s, Area: 305425.0m², Vol: 50097.4m³

Step 11800/29999, Sim Time: 3783.627s (+1.361e-01s), Max Depth: 0.8317156200m, Max Vel: 9.9999999990m/s, Area: 304150.0m², Vol: 50140.9m³

Step 11900/29999, Sim Time: 3797.237s (+1.361e-01s), Max Depth: 0.8333325965m, Max Vel: 9.9999999990m/s, Area: 304825.0m², Vol: 50179.8m³

Step 12000/29999, Sim Time: 3810.845s (+1.361e-01s), Max Depth: 0.8346777224m, Max Vel: 9.9999999990m/s, Area: 303525.0m², Vol: 50216.8m³

Step 12100/29999, Sim Time: 3824.450s (+1.360e-01s), Max Depth: 0.8363607879m, Max Vel: 9.9999999990m/s, Area: 301700.0m², Vol: 50253.7m³

Step 12200/29999, Sim Time: 3838.052s (+1.360e-01s), Max Depth: 0.8387884702m, Max Vel: 9.9999999990m/s, Area: 301650.0m², Vol: 50292.0m³

Step 12300/29999, Sim Time: 3851.648s (+1.359e-01s), Max Depth: 0.8411000706m, Max Vel: 9.9999999990m/s, Area: 301075.0m², Vol: 50329.8m³

Step 12400/29999, Sim Time: 3865.242s (+1.359e-01s), Max Depth: 0.8428636672m, Max Vel: 9.9999999990m/s, Area: 300875.0m², Vol: 50366.3m³

Step 12500/29999, Sim Time: 3878.832s (+1.359e-01s), Max Depth: 0.8442863631m, Max Vel: 9.9999999990m/s, Area: 300375.0m², Vol: 50401.7m³

Step 12600/29999, Sim Time: 3892.420s (+1.359e-01s), Max Depth: 0.8463862248m, Max Vel: 9.9999999990m/s, Area: 301875.0m², Vol: 50437.9m³

Step 12700/29999, Sim Time: 3906.003s (+1.358e-01s), Max Depth: 0.8481179627m, Max Vel: 9.9999999990m/s, Area: 300575.0m², Vol: 50473.4m³

Step 12800/29999, Sim Time: 3919.584s (+1.358e-01s), Max Depth: 0.8496494221m, Max Vel: 9.9999999990m/s, Area: 300300.0m², Vol: 50507.7m³

Step 12900/29999, Sim Time: 3933.163s (+1.358e-01s), Max Depth: 0.8511176076m, Max Vel: 9.9999999990m/s, Area: 299625.0m², Vol: 50542.3m³

Step 13000/29999, Sim Time: 3946.738s (+1.357e-01s), Max Depth: 0.8522728935m, Max Vel: 9.9999999990m/s, Area: 299900.0m², Vol: 50577.1m³

Step 13100/29999, Sim Time: 3960.312s (+1.357e-01s), Max Depth: 0.8534541308m, Max Vel: 9.9999999990m/s, Area: 299625.0m², Vol: 50611.0m³

Step 13200/29999, Sim Time: 3973.884s (+1.357e-01s), Max Depth: 0.8546408522m, Max Vel: 9.9999999990m/s, Area: 299600.0m², Vol: 50643.5m³

Step 13300/29999, Sim Time: 3987.453s (+1.357e-01s), Max Depth: 0.8562729267m, Max Vel: 9.9999999990m/s, Area: 298525.0m², Vol: 50676.0m³

Step 13400/29999, Sim Time: 4001.020s (+1.357e-01s), Max Depth: 0.8576046769m, Max Vel: 9.9999999990m/s, Area: 298000.0m², Vol: 50708.4m³

Step 13500/29999, Sim Time: 4014.584s (+1.356e-01s), Max Depth: 0.8585174374m, Max Vel: 9.9999999990m/s, Area: 297625.0m², Vol: 50741.1m³

Step 13600/29999, Sim Time: 4028.147s (+1.356e-01s), Max Depth: 0.8596132771m, Max Vel: 9.9999999990m/s, Area: 298075.0m², Vol: 50773.7m³

Step 13700/29999, Sim Time: 4041.708s (+1.356e-01s), Max Depth: 0.8606715656m, Max Vel: 9.9999999990m/s, Area: 297200.0m², Vol: 50805.7m³

Step 13800/29999, Sim Time: 4055.267s (+1.356e-01s), Max Depth: 0.8616247670m, Max Vel: 9.9999999990m/s, Area: 297100.0m², Vol: 50836.9m³

Step 13900/29999, Sim Time: 4068.824s (+1.356e-01s), Max Depth: 0.8622763561m, Max Vel: 9.9999999990m/s, Area: 296375.0m², Vol: 50867.2m³

Step 14000/29999, Sim Time: 4082.381s (+1.356e-01s), Max Depth: 0.8630222697m, Max Vel: 9.9999999990m/s, Area: 296275.0m², Vol: 50897.0m³

Step 14100/29999, Sim Time: 4095.936s (+1.355e-01s), Max Depth: 0.8635522458m, Max Vel: 9.9999999990m/s, Area: 296550.0m², Vol: 50926.0m³

Step 14200/29999, Sim Time: 4109.490s (+1.355e-01s), Max Depth: 0.8637208985m, Max Vel: 9.9999999990m/s, Area: 296500.0m², Vol: 50953.8m³

Step 14300/29999, Sim Time: 4123.045s (+1.355e-01s), Max Depth: 0.8638810745m, Max Vel: 9.9999999990m/s, Area: 296000.0m², Vol: 50981.4m³

Step 14400/29999, Sim Time: 4136.599s (+1.355e-01s), Max Depth: 0.8639155630m, Max Vel: 9.9999999990m/s, Area: 295600.0m², Vol: 51007.9m³

Step 14500/29999, Sim Time: 4150.153s (+1.356e-01s), Max Depth: 0.8624285685m, Max Vel: 9.9999999990m/s, Area: 295075.0m², Vol: 51028.3m³

Step 14600/29999, Sim Time: 4163.715s (+1.356e-01s), Max Depth: 0.8630390757m, Max Vel: 9.9999999990m/s, Area: 295675.0m², Vol: 51052.3m³

Step 14700/29999, Sim Time: 4177.251s (+1.353e-01s), Max Depth: 0.8751111721m, Max Vel: 9.9999999990m/s, Area: 293975.0m², Vol: 51093.4m³

Step 14800/29999, Sim Time: 4190.789s (+1.354e-01s), Max Depth: 0.8728726538m, Max Vel: 9.9999999990m/s, Area: 294750.0m², Vol: 51135.5m³

Step 14900/29999, Sim Time: 4204.329s (+1.354e-01s), Max Depth: 0.8709835922m, Max Vel: 9.9999999990m/s, Area: 295650.0m², Vol: 51172.4m³

Step 15000/29999, Sim Time: 4217.870s (+1.354e-01s), Max Depth: 0.8701314978m, Max Vel: 9.9999999990m/s, Area: 294875.0m², Vol: 51205.9m³

Step 15100/29999, Sim Time: 4231.416s (+1.354e-01s), Max Depth: 0.8702219173m, Max Vel: 9.9999999990m/s, Area: 295325.0m², Vol: 51235.8m³

Step 15200/29999, Sim Time: 4244.963s (+1.355e-01s), Max Depth: 0.8644850469m, Max Vel: 9.9999999990m/s, Area: 293900.0m², Vol: 51260.5m³

Step 15300/29999, Sim Time: 4258.514s (+1.355e-01s), Max Depth: 0.8656112586m, Max Vel: 9.9999999990m/s, Area: 294125.0m², Vol: 51282.3m³

Step 15400/29999, Sim Time: 4272.067s (+1.355e-01s), Max Depth: 0.8652067969m, Max Vel: 9.9999999990m/s, Area: 295000.0m², Vol: 51302.8m³

Step 15500/29999, Sim Time: 4285.619s (+1.355e-01s), Max Depth: 0.8634703210m, Max Vel: 9.9999999990m/s, Area: 294125.0m², Vol: 51321.6m³

Step 15600/29999, Sim Time: 4299.175s (+1.355e-01s), Max Depth: 0.8637133652m, Max Vel: 9.9999999990m/s, Area: 294800.0m², Vol: 51338.7m³

Step 15700/29999, Sim Time: 4312.731s (+1.356e-01s), Max Depth: 0.8616844362m, Max Vel: 9.9999999990m/s, Area: 294150.0m², Vol: 51352.4m³

Step 15800/29999, Sim Time: 4326.289s (+1.356e-01s), Max Depth: 0.8608960784m, Max Vel: 9.9999999990m/s, Area: 293825.0m², Vol: 51363.9m³

Step 15900/29999, Sim Time: 4339.850s (+1.356e-01s), Max Depth: 0.8597009318m, Max Vel: 9.9999999990m/s, Area: 293675.0m², Vol: 51375.1m³

Step 16000/29999, Sim Time: 4353.412s (+1.356e-01s), Max Depth: 0.8589303169m, Max Vel: 9.9999999990m/s, Area: 293750.0m², Vol: 51384.9m³

Step 16100/29999, Sim Time: 4366.976s (+1.356e-01s), Max Depth: 0.8582472551m, Max Vel: 9.9999999990m/s, Area: 293250.0m², Vol: 51394.6m³

Step 16200/29999, Sim Time: 4380.541s (+1.357e-01s), Max Depth: 0.8574248156m, Max Vel: 9.9999999990m/s, Area: 292750.0m², Vol: 51404.7m³

Step 16300/29999, Sim Time: 4394.107s (+1.357e-01s), Max Depth: 0.8569664115m, Max Vel: 9.9999999990m/s, Area: 293550.0m², Vol: 51414.3m³

Step 16400/29999, Sim Time: 4407.674s (+1.357e-01s), Max Depth: 0.8561972908m, Max Vel: 9.9999999990m/s, Area: 293700.0m², Vol: 51423.6m³

Step 16500/29999, Sim Time: 4421.242s (+1.357e-01s), Max Depth: 0.8559342837m, Max Vel: 9.9999999990m/s, Area: 292925.0m², Vol: 51432.5m³

Step 16600/29999, Sim Time: 4434.811s (+1.357e-01s), Max Depth: 0.8554277768m, Max Vel: 9.9999999990m/s, Area: 292650.0m², Vol: 51440.9m³

Step 16700/29999, Sim Time: 4448.380s (+1.357e-01s), Max Depth: 0.8551597718m, Max Vel: 9.9999999990m/s, Area: 294200.0m², Vol: 51448.5m³

Step 16800/29999, Sim Time: 4461.950s (+1.357e-01s), Max Depth: 0.8548938738m, Max Vel: 9.9999999990m/s, Area: 292150.0m², Vol: 51455.3m³

Step 16900/29999, Sim Time: 4475.521s (+1.357e-01s), Max Depth: 0.8545206110m, Max Vel: 9.9999999990m/s, Area: 292600.0m², Vol: 51461.6m³

Step 17000/29999, Sim Time: 4489.092s (+1.357e-01s), Max Depth: 0.8545483592m, Max Vel: 9.9999999990m/s, Area: 293400.0m², Vol: 51469.1m³

Step 17100/29999, Sim Time: 4502.663s (+1.357e-01s), Max Depth: 0.8541875055m, Max Vel: 9.9999999990m/s, Area: 292725.0m², Vol: 51476.4m³

Step 17200/29999, Sim Time: 4516.234s (+1.357e-01s), Max Depth: 0.8542382505m, Max Vel: 9.9999999990m/s, Area: 292075.0m², Vol: 51485.5m³

Step 17300/29999, Sim Time: 4529.806s (+1.357e-01s), Max Depth: 0.8541332905m, Max Vel: 9.9999999990m/s, Area: 292975.0m², Vol: 51495.3m³

Step 17400/29999, Sim Time: 4543.377s (+1.357e-01s), Max Depth: 0.8540937138m, Max Vel: 9.9999999990m/s, Area: 291625.0m², Vol: 51505.8m³

Step 17500/29999, Sim Time: 4556.949s (+1.357e-01s), Max Depth: 0.8541568976m, Max Vel: 9.9999999990m/s, Area: 292300.0m², Vol: 51516.6m³

Step 17600/29999, Sim Time: 4570.520s (+1.357e-01s), Max Depth: 0.8540014768m, Max Vel: 9.9999999990m/s, Area: 292250.0m², Vol: 51527.3m³

Step 17700/29999, Sim Time: 4584.092s (+1.357e-01s), Max Depth: 0.8541590689m, Max Vel: 9.9999999990m/s, Area: 292750.0m², Vol: 51538.5m³

Step 17800/29999, Sim Time: 4597.663s (+1.357e-01s), Max Depth: 0.8540831284m, Max Vel: 9.9999999990m/s, Area: 292700.0m², Vol: 51550.7m³

Step 17900/29999, Sim Time: 4611.235s (+1.357e-01s), Max Depth: 0.8541559133m, Max Vel: 9.9999999990m/s, Area: 291525.0m², Vol: 51562.2m³

Step 18000/29999, Sim Time: 4624.806s (+1.357e-01s), Max Depth: 0.8542257772m, Max Vel: 9.9999999990m/s, Area: 291350.0m², Vol: 51576.1m³

Step 18100/29999, Sim Time: 4638.378s (+1.357e-01s), Max Depth: 0.8541888667m, Max Vel: 9.9999999990m/s, Area: 290725.0m², Vol: 51589.0m³

Step 18200/29999, Sim Time: 4651.949s (+1.357e-01s), Max Depth: 0.8543120151m, Max Vel: 9.9999999990m/s, Area: 291000.0m², Vol: 51600.2m³

Step 18300/29999, Sim Time: 4665.520s (+1.357e-01s), Max Depth: 0.8542654318m, Max Vel: 9.9999999990m/s, Area: 291775.0m², Vol: 51612.2m³

Step 18400/29999, Sim Time: 4679.091s (+1.357e-01s), Max Depth: 0.8544302954m, Max Vel: 9.9999999990m/s, Area: 291825.0m², Vol: 51624.1m³

Step 18500/29999, Sim Time: 4692.662s (+1.357e-01s), Max Depth: 0.8547327791m, Max Vel: 9.9999999999m/s, Area: 292375.0m², Vol: 51638.3m³

Step 18600/29999, Sim Time: 4706.229s (+1.356e-01s), Max Depth: 0.8613257446m, Max Vel: 9.9999999999m/s, Area: 292800.0m², Vol: 51665.9m³

Step 18700/29999, Sim Time: 4719.779s (+1.355e-01s), Max Depth: 0.8684144895m, Max Vel: 9.9999999990m/s, Area: 291250.0m², Vol: 51704.7m³

Step 18800/29999, Sim Time: 4733.325s (+1.355e-01s), Max Depth: 0.8681159951m, Max Vel: 9.9999999990m/s, Area: 291125.0m², Vol: 51744.7m³

Step 18900/29999, Sim Time: 4746.871s (+1.355e-01s), Max Depth: 0.8686083502m, Max Vel: 9.9999999990m/s, Area: 292550.0m², Vol: 51782.0m³

Step 19000/29999, Sim Time: 4760.418s (+1.355e-01s), Max Depth: 0.8671693500m, Max Vel: 9.9999999990m/s, Area: 292250.0m², Vol: 51815.3m³

Step 19100/29999, Sim Time: 4773.968s (+1.355e-01s), Max Depth: 0.8662770935m, Max Vel: 9.9999999990m/s, Area: 292075.0m², Vol: 51844.7m³

Step 19200/29999, Sim Time: 4787.519s (+1.355e-01s), Max Depth: 0.8647325879m, Max Vel: 9.9999999990m/s, Area: 291975.0m², Vol: 51869.7m³

Step 19300/29999, Sim Time: 4801.071s (+1.355e-01s), Max Depth: 0.8648598942m, Max Vel: 9.9999999990m/s, Area: 292300.0m², Vol: 51891.9m³

Step 19400/29999, Sim Time: 4814.625s (+1.355e-01s), Max Depth: 0.8644902589m, Max Vel: 9.9999999990m/s, Area: 292325.0m², Vol: 51913.4m³

Step 19500/29999, Sim Time: 4828.177s (+1.355e-01s), Max Depth: 0.8649131201m, Max Vel: 9.9999999990m/s, Area: 292500.0m², Vol: 51933.3m³

Step 19600/29999, Sim Time: 4841.730s (+1.355e-01s), Max Depth: 0.8646254900m, Max Vel: 9.9999999990m/s, Area: 292600.0m², Vol: 51952.1m³

Step 19700/29999, Sim Time: 4855.283s (+1.355e-01s), Max Depth: 0.8636564939m, Max Vel: 9.9999999990m/s, Area: 292500.0m², Vol: 51969.7m³

Step 19800/29999, Sim Time: 4868.839s (+1.356e-01s), Max Depth: 0.8628915005m, Max Vel: 9.9999999990m/s, Area: 293050.0m², Vol: 51985.9m³

Step 19900/29999, Sim Time: 4882.395s (+1.356e-01s), Max Depth: 0.8625777342m, Max Vel: 9.9999999990m/s, Area: 293400.0m², Vol: 52002.4m³

Step 20000/29999, Sim Time: 4895.952s (+1.356e-01s), Max Depth: 0.8622742263m, Max Vel: 9.9999999990m/s, Area: 292975.0m², Vol: 52017.4m³

Step 20100/29999, Sim Time: 4909.508s (+1.355e-01s), Max Depth: 0.8638914445m, Max Vel: 9.9999999990m/s, Area: 293025.0m², Vol: 52033.5m³

Step 20200/29999, Sim Time: 4923.059s (+1.355e-01s), Max Depth: 0.8670672436m, Max Vel: 9.9999999990m/s, Area: 293250.0m², Vol: 52053.3m³

Step 20300/29999, Sim Time: 4936.605s (+1.354e-01s), Max Depth: 0.8699250758m, Max Vel: 9.9999999990m/s, Area: 294175.0m², Vol: 52077.5m³

Step 20400/29999, Sim Time: 4950.148s (+1.354e-01s), Max Depth: 0.8709290773m, Max Vel: 9.9999999990m/s, Area: 292275.0m², Vol: 52102.9m³

Step 20500/29999, Sim Time: 4963.689s (+1.354e-01s), Max Depth: 0.8713685446m, Max Vel: 9.9999999990m/s, Area: 293250.0m², Vol: 52126.7m³

Step 20600/29999, Sim Time: 4977.229s (+1.354e-01s), Max Depth: 0.8726336971m, Max Vel: 9.9999999990m/s, Area: 293275.0m², Vol: 52152.1m³

Step 20700/29999, Sim Time: 4990.767s (+1.354e-01s), Max Depth: 0.8739330214m, Max Vel: 9.9999999990m/s, Area: 293325.0m², Vol: 52180.2m³

Step 20800/29999, Sim Time: 5004.302s (+1.354e-01s), Max Depth: 0.8747021457m, Max Vel: 9.9999999990m/s, Area: 292500.0m², Vol: 52208.5m³

Step 20900/29999, Sim Time: 5017.837s (+1.353e-01s), Max Depth: 0.8752666856m, Max Vel: 9.9999999990m/s, Area: 293200.0m², Vol: 52236.7m³

Step 21000/29999, Sim Time: 5031.371s (+1.353e-01s), Max Depth: 0.8753240430m, Max Vel: 9.9999999990m/s, Area: 293025.0m², Vol: 52263.7m³

Step 21100/29999, Sim Time: 5044.905s (+1.353e-01s), Max Depth: 0.8758068620m, Max Vel: 9.9999999990m/s, Area: 292000.0m², Vol: 52289.4m³

Step 21200/29999, Sim Time: 5058.438s (+1.353e-01s), Max Depth: 0.8760714287m, Max Vel: 9.9999999990m/s, Area: 292400.0m², Vol: 52314.6m³

Step 21300/29999, Sim Time: 5071.971s (+1.353e-01s), Max Depth: 0.8759849851m, Max Vel: 9.9999999990m/s, Area: 292750.0m², Vol: 52339.3m³

Step 21400/29999, Sim Time: 5085.504s (+1.353e-01s), Max Depth: 0.8758770442m, Max Vel: 9.9999999990m/s, Area: 292600.0m², Vol: 52363.5m³

Step 21500/29999, Sim Time: 5099.037s (+1.353e-01s), Max Depth: 0.8756950722m, Max Vel: 9.9999999990m/s, Area: 293150.0m², Vol: 52387.6m³

Step 21600/29999, Sim Time: 5112.571s (+1.353e-01s), Max Depth: 0.8752066377m, Max Vel: 9.9999999990m/s, Area: 293150.0m², Vol: 52411.4m³

Step 21700/29999, Sim Time: 5126.105s (+1.354e-01s), Max Depth: 0.8746994445m, Max Vel: 9.9999999990m/s, Area: 293650.0m², Vol: 52434.2m³

Step 21800/29999, Sim Time: 5139.641s (+1.354e-01s), Max Depth: 0.8743975013m, Max Vel: 9.9999999990m/s, Area: 292750.0m², Vol: 52456.3m³

Step 21900/29999, Sim Time: 5153.177s (+1.354e-01s), Max Depth: 0.8739451701m, Max Vel: 9.9999999990m/s, Area: 293375.0m², Vol: 52477.9m³

Step 22000/29999, Sim Time: 5166.714s (+1.354e-01s), Max Depth: 0.8733171040m, Max Vel: 9.9999999990m/s, Area: 293700.0m², Vol: 52498.1m³

Step 22100/29999, Sim Time: 5180.252s (+1.354e-01s), Max Depth: 0.8727571537m, Max Vel: 9.9999999990m/s, Area: 293150.0m², Vol: 52518.2m³

Step 22200/29999, Sim Time: 5193.791s (+1.354e-01s), Max Depth: 0.8723392528m, Max Vel: 9.9999999990m/s, Area: 293125.0m², Vol: 52537.8m³

Step 22300/29999, Sim Time: 5207.331s (+1.354e-01s), Max Depth: 0.8718371606m, Max Vel: 9.9999999990m/s, Area: 292825.0m², Vol: 52556.8m³

Step 22400/29999, Sim Time: 5220.871s (+1.354e-01s), Max Depth: 0.8714682450m, Max Vel: 9.9999999990m/s, Area: 293250.0m², Vol: 52575.4m³

Step 22500/29999, Sim Time: 5234.412s (+1.354e-01s), Max Depth: 0.8710519156m, Max Vel: 9.9999999990m/s, Area: 292375.0m², Vol: 52594.1m³

Step 22600/29999, Sim Time: 5247.954s (+1.354e-01s), Max Depth: 0.8706002007m, Max Vel: 9.9999999990m/s, Area: 292800.0m², Vol: 52613.2m³

Step 22700/29999, Sim Time: 5261.497s (+1.354e-01s), Max Depth: 0.8702279403m, Max Vel: 9.9999999990m/s, Area: 293150.0m², Vol: 52632.0m³

Step 22800/29999, Sim Time: 5275.040s (+1.354e-01s), Max Depth: 0.8698507882m, Max Vel: 9.9999999990m/s, Area: 293575.0m², Vol: 52649.8m³

Step 22900/29999, Sim Time: 5288.584s (+1.354e-01s), Max Depth: 0.8695503563m, Max Vel: 9.9999999990m/s, Area: 292550.0m², Vol: 52668.3m³

Step 23000/29999, Sim Time: 5302.128s (+1.354e-01s), Max Depth: 0.8693191040m, Max Vel: 9.9999999998m/s, Area: 294075.0m², Vol: 52688.7m³

Step 23100/29999, Sim Time: 5315.673s (+1.354e-01s), Max Depth: 0.8691309300m, Max Vel: 9.9999999990m/s, Area: 293525.0m², Vol: 52712.2m³

Step 23200/29999, Sim Time: 5329.218s (+1.355e-01s), Max Depth: 0.8689799153m, Max Vel: 9.9999999990m/s, Area: 294100.0m², Vol: 52729.6m³

Step 23300/29999, Sim Time: 5342.764s (+1.355e-01s), Max Depth: 0.8683326530m, Max Vel: 9.9999999990m/s, Area: 294325.0m², Vol: 52746.9m³

Step 23400/29999, Sim Time: 5356.311s (+1.355e-01s), Max Depth: 0.8676172193m, Max Vel: 9.9999999990m/s, Area: 294375.0m², Vol: 52764.0m³

Step 23500/29999, Sim Time: 5369.859s (+1.355e-01s), Max Depth: 0.8669972179m, Max Vel: 9.9999999990m/s, Area: 294350.0m², Vol: 52781.6m³

Step 23600/29999, Sim Time: 5383.408s (+1.355e-01s), Max Depth: 0.8664754723m, Max Vel: 9.9999999990m/s, Area: 293625.0m², Vol: 52799.7m³

Step 23700/29999, Sim Time: 5396.958s (+1.355e-01s), Max Depth: 0.8661058383m, Max Vel: 9.9999999990m/s, Area: 293750.0m², Vol: 52817.6m³

Step 23800/29999, Sim Time: 5410.509s (+1.355e-01s), Max Depth: 0.8657716556m, Max Vel: 9.9999999990m/s, Area: 294725.0m², Vol: 52835.2m³

Step 23900/29999, Sim Time: 5424.060s (+1.355e-01s), Max Depth: 0.8655219734m, Max Vel: 9.9999999990m/s, Area: 294450.0m², Vol: 52851.8m³

Step 24000/29999, Sim Time: 5437.611s (+1.355e-01s), Max Depth: 0.8652420895m, Max Vel: 9.9999999990m/s, Area: 294175.0m², Vol: 52867.9m³

Step 24100/29999, Sim Time: 5451.163s (+1.355e-01s), Max Depth: 0.8649560116m, Max Vel: 9.9999999990m/s, Area: 293750.0m², Vol: 52885.2m³

Step 24200/29999, Sim Time: 5464.716s (+1.355e-01s), Max Depth: 0.8647559322m, Max Vel: 9.9999999990m/s, Area: 293825.0m², Vol: 52903.0m³

Step 24300/29999, Sim Time: 5478.269s (+1.355e-01s), Max Depth: 0.8645990648m, Max Vel: 9.9999999990m/s, Area: 293925.0m², Vol: 52921.3m³

Step 24400/29999, Sim Time: 5491.822s (+1.355e-01s), Max Depth: 0.8645304646m, Max Vel: 9.9999999990m/s, Area: 293775.0m², Vol: 52940.3m³

Step 24500/29999, Sim Time: 5505.375s (+1.355e-01s), Max Depth: 0.8645432863m, Max Vel: 9.9999999990m/s, Area: 294050.0m², Vol: 52960.9m³

Step 24600/29999, Sim Time: 5518.928s (+1.355e-01s), Max Depth: 0.8646860467m, Max Vel: 9.9999999990m/s, Area: 293700.0m², Vol: 52984.2m³

Step 24700/29999, Sim Time: 5532.480s (+1.355e-01s), Max Depth: 0.8649855845m, Max Vel: 9.9999999990m/s, Area: 294025.0m², Vol: 53009.8m³

Step 24800/29999, Sim Time: 5546.032s (+1.355e-01s), Max Depth: 0.8652366968m, Max Vel: 9.9999999990m/s, Area: 293925.0m², Vol: 53038.6m³

Step 24900/29999, Sim Time: 5559.584s (+1.355e-01s), Max Depth: 0.8653736110m, Max Vel: 9.9999999990m/s, Area: 294000.0m², Vol: 53069.6m³

Step 25000/29999, Sim Time: 5573.135s (+1.355e-01s), Max Depth: 0.8654315756m, Max Vel: 9.9999999990m/s, Area: 294150.0m², Vol: 53101.2m³

Step 25100/29999, Sim Time: 5586.687s (+1.355e-01s), Max Depth: 0.8655357154m, Max Vel: 9.9999999990m/s, Area: 294925.0m², Vol: 53134.5m³

Step 25200/29999, Sim Time: 5600.238s (+1.355e-01s), Max Depth: 0.8655104433m, Max Vel: 9.9999999990m/s, Area: 294700.0m², Vol: 53169.5m³

Step 25300/29999, Sim Time: 5613.789s (+1.355e-01s), Max Depth: 0.8654651009m, Max Vel: 9.9999999990m/s, Area: 295150.0m², Vol: 53205.2m³

Step 25400/29999, Sim Time: 5627.341s (+1.355e-01s), Max Depth: 0.8653267499m, Max Vel: 9.9999999990m/s, Area: 294275.0m², Vol: 53242.0m³

Step 25500/29999, Sim Time: 5640.893s (+1.355e-01s), Max Depth: 0.8649056397m, Max Vel: 9.9999999990m/s, Area: 294400.0m², Vol: 53279.0m³

Step 25600/29999, Sim Time: 5654.444s (+1.355e-01s), Max Depth: 0.8663213383m, Max Vel: 9.9999999990m/s, Area: 294825.0m², Vol: 53316.0m³

Step 25700/29999, Sim Time: 5667.993s (+1.355e-01s), Max Depth: 0.8678149832m, Max Vel: 9.9999999990m/s, Area: 294400.0m², Vol: 53351.8m³

Step 25800/29999, Sim Time: 5681.539s (+1.355e-01s), Max Depth: 0.8686687244m, Max Vel: 9.9999999990m/s, Area: 294675.0m², Vol: 53385.4m³

Step 25900/29999, Sim Time: 5695.085s (+1.354e-01s), Max Depth: 0.8691560478m, Max Vel: 9.9999999990m/s, Area: 294550.0m², Vol: 53416.0m³

Step 26000/29999, Sim Time: 5708.629s (+1.354e-01s), Max Depth: 0.8693641351m, Max Vel: 9.9999999990m/s, Area: 294675.0m², Vol: 53443.0m³

Step 26100/29999, Sim Time: 5722.174s (+1.354e-01s), Max Depth: 0.8692519450m, Max Vel: 9.9999999990m/s, Area: 294200.0m², Vol: 53466.6m³

Step 26200/29999, Sim Time: 5735.719s (+1.355e-01s), Max Depth: 0.8690818902m, Max Vel: 9.9999999990m/s, Area: 294500.0m², Vol: 53487.5m³

Step 26300/29999, Sim Time: 5749.264s (+1.355e-01s), Max Depth: 0.8690888366m, Max Vel: 9.9999999990m/s, Area: 294775.0m², Vol: 53507.5m³

Step 26400/29999, Sim Time: 5762.809s (+1.354e-01s), Max Depth: 0.8692470069m, Max Vel: 9.9999999990m/s, Area: 294200.0m², Vol: 53526.1m³

Step 26500/29999, Sim Time: 5776.353s (+1.354e-01s), Max Depth: 0.8694430144m, Max Vel: 9.9999999990m/s, Area: 295300.0m², Vol: 53544.7m³

Step 26600/29999, Sim Time: 5789.898s (+1.354e-01s), Max Depth: 0.8695834920m, Max Vel: 9.9999999990m/s, Area: 294450.0m², Vol: 53563.1m³

Step 26700/29999, Sim Time: 5803.442s (+1.354e-01s), Max Depth: 0.8697302536m, Max Vel: 9.9999999990m/s, Area: 295350.0m², Vol: 53580.8m³

Step 26800/29999, Sim Time: 5816.985s (+1.354e-01s), Max Depth: 0.8699550622m, Max Vel: 9.9999999990m/s, Area: 295450.0m², Vol: 53598.0m³

Step 26900/29999, Sim Time: 5830.529s (+1.354e-01s), Max Depth: 0.8701785692m, Max Vel: 9.9999999990m/s, Area: 295425.0m², Vol: 53615.4m³

Step 27000/29999, Sim Time: 5844.071s (+1.354e-01s), Max Depth: 0.8704231600m, Max Vel: 9.9999999990m/s, Area: 295075.0m², Vol: 53633.6m³

Step 27100/29999, Sim Time: 5857.614s (+1.354e-01s), Max Depth: 0.8706910158m, Max Vel: 9.9999999990m/s, Area: 295300.0m², Vol: 53651.9m³

Step 27200/29999, Sim Time: 5871.156s (+1.354e-01s), Max Depth: 0.8708940633m, Max Vel: 9.9999999990m/s, Area: 295825.0m², Vol: 53669.6m³

Step 27300/29999, Sim Time: 5884.698s (+1.354e-01s), Max Depth: 0.8710423574m, Max Vel: 9.9999999990m/s, Area: 295225.0m², Vol: 53687.4m³

Step 27400/29999, Sim Time: 5898.239s (+1.354e-01s), Max Depth: 0.8711949153m, Max Vel: 9.9999999990m/s, Area: 294800.0m², Vol: 53705.4m³

Step 27500/29999, Sim Time: 5911.780s (+1.354e-01s), Max Depth: 0.8713396711m, Max Vel: 9.9999999990m/s, Area: 295300.0m², Vol: 53723.8m³

Step 27600/29999, Sim Time: 5925.321s (+1.354e-01s), Max Depth: 0.8714074357m, Max Vel: 9.9999999990m/s, Area: 295950.0m², Vol: 53740.7m³

Step 27700/29999, Sim Time: 5938.862s (+1.354e-01s), Max Depth: 0.8714201579m, Max Vel: 9.9999999990m/s, Area: 296400.0m², Vol: 53756.9m³

Step 27800/29999, Sim Time: 5952.403s (+1.354e-01s), Max Depth: 0.8714339407m, Max Vel: 9.9999999990m/s, Area: 296525.0m², Vol: 53772.5m³

Step 27900/29999, Sim Time: 5965.944s (+1.354e-01s), Max Depth: 0.8714190090m, Max Vel: 9.9999999990m/s, Area: 295300.0m², Vol: 53787.5m³

Step 28000/29999, Sim Time: 5979.485s (+1.354e-01s), Max Depth: 0.8713597702m, Max Vel: 9.9999999990m/s, Area: 296550.0m², Vol: 53803.6m³

Step 28100/29999, Sim Time: 5993.026s (+1.354e-01s), Max Depth: 0.8712940849m, Max Vel: 9.9999999990m/s, Area: 296250.0m², Vol: 53819.6m³

Step 28200/29999, Sim Time: 6006.567s (+1.354e-01s), Max Depth: 0.8712711893m, Max Vel: 9.9999999990m/s, Area: 296625.0m², Vol: 53835.1m³

Step 28300/29999, Sim Time: 6020.108s (+1.354e-01s), Max Depth: 0.8712503920m, Max Vel: 9.9999999990m/s, Area: 296750.0m², Vol: 53849.4m³

Step 28400/29999, Sim Time: 6033.649s (+1.354e-01s), Max Depth: 0.8712524447m, Max Vel: 9.9999999990m/s, Area: 297250.0m², Vol: 53862.9m³

Step 28500/29999, Sim Time: 6047.191s (+1.354e-01s), Max Depth: 0.8712937877m, Max Vel: 9.9999999990m/s, Area: 297100.0m², Vol: 53875.8m³

Step 28600/29999, Sim Time: 6060.732s (+1.354e-01s), Max Depth: 0.8713604273m, Max Vel: 9.9999999990m/s, Area: 297725.0m², Vol: 53889.0m³

Step 28700/29999, Sim Time: 6074.273s (+1.354e-01s), Max Depth: 0.8714142521m, Max Vel: 9.9999999990m/s, Area: 297325.0m², Vol: 53902.2m³

Step 28800/29999, Sim Time: 6087.813s (+1.354e-01s), Max Depth: 0.8714686998m, Max Vel: 9.9999999990m/s, Area: 296900.0m², Vol: 53914.7m³

Step 28900/29999, Sim Time: 6101.354s (+1.354e-01s), Max Depth: 0.8715119981m, Max Vel: 9.9999999990m/s, Area: 297125.0m², Vol: 53926.2m³

Step 29000/29999, Sim Time: 6114.895s (+1.354e-01s), Max Depth: 0.8715336559m, Max Vel: 9.9999999990m/s, Area: 297550.0m², Vol: 53937.7m³

Step 29100/29999, Sim Time: 6128.436s (+1.354e-01s), Max Depth: 0.8715560750m, Max Vel: 9.9999999990m/s, Area: 297050.0m², Vol: 53950.0m³

Step 29200/29999, Sim Time: 6141.976s (+1.354e-01s), Max Depth: 0.8715631563m, Max Vel: 9.9999999990m/s, Area: 296625.0m², Vol: 53962.3m³

Step 29300/29999, Sim Time: 6155.517s (+1.354e-01s), Max Depth: 0.8715618164m, Max Vel: 9.9999999990m/s, Area: 296975.0m², Vol: 53974.1m³

Step 29400/29999, Sim Time: 6169.058s (+1.354e-01s), Max Depth: 0.8715548228m, Max Vel: 9.9999999990m/s, Area: 298050.0m², Vol: 53985.9m³

Step 29500/29999, Sim Time: 6182.598s (+1.354e-01s), Max Depth: 0.8715264688m, Max Vel: 9.9999999990m/s, Area: 299000.0m², Vol: 53998.0m³

Step 29600/29999, Sim Time: 6196.139s (+1.354e-01s), Max Depth: 0.8714912239m, Max Vel: 9.9999999990m/s, Area: 297775.0m², Vol: 54009.3m³

Step 29700/29999, Sim Time: 6209.680s (+1.354e-01s), Max Depth: 0.8714571579m, Max Vel: 9.9999999990m/s, Area: 296950.0m², Vol: 54020.4m³

Step 29800/29999, Sim Time: 6223.221s (+1.354e-01s), Max Depth: 0.8714232397m, Max Vel: 9.9999999990m/s, Area: 297875.0m², Vol: 54032.1m³

Step 29900/29999, Sim Time: 6236.762s (+1.354e-01s), Max Depth: 0.8713794449m, Max Vel: 9.9999999990m/s, Area: 298650.0m², Vol: 54044.4m³

Step 29999/29999, Sim Time: 6250.167s (+1.354e-01s), Max Depth: 0.8713283983m, Max Vel: 9.9999999990m/s, Area: 298250.0m², Vol: 54056.3m³

Simulation finished 30000 steps in 247.44 seconds (wall clock).

Final Maximum Flood Extent Area: 968100.00 m²

Peak Recorded Water Depth Anywhere: 0.878 m

Phase 2 max depth: 0.871 m, steady state max depth: 0.734 m, rate of increase: 0.000022 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain12\_5.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain12\_5\_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 20 --output-freq 100 -o result\_rain20.mp4 --save--source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 156.25 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26 s

Stored final Phase 1 depth as steady\_state\_h for visualization.

--- Starting Phase 2: Adding Rainfall (30000 steps) ---

Adding rainfall rate: 20.0 mm/hr (5.56e-06 m/s)

Added rainfall: rate=5.555555555555556e-06 m/s, duration=30000 steps

Infiltration rate for Phase 2 is 0.

Running Phase 2 for 30000 additional steps...

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337700026m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39722.4m³

Step 100/29999, Sim Time: 55.078s (+5.453e-01s), Max Depth: 0.7340899203m, Max Vel: 0.5258403331m/s, Area: 130825.0m², Vol: 40007.3m³

Step 200/29999, Sim Time: 109.599s (+5.451e-01s), Max Depth: 0.7344019389m, Max Vel: 0.5261788328m/s, Area: 130900.0m², Vol: 40290.2m³

Step 300/29999, Sim Time: 164.102s (+5.449e-01s), Max Depth: 0.7347302408m, Max Vel: 0.5266392656m/s, Area: 130925.0m², Vol: 40571.7m³

Step 400/29999, Sim Time: 218.588s (+5.448e-01s), Max Depth: 0.7350430521m, Max Vel: 0.5269280372m/s, Area: 131075.0m², Vol: 40852.1m³

Step 500/29999, Sim Time: 273.061s (+5.447e-01s), Max Depth: 0.7353358745m, Max Vel: 0.5272498027m/s, Area: 131200.0m², Vol: 41132.2m³

Step 600/29999, Sim Time: 327.519s (+5.445e-01s), Max Depth: 0.7356020796m, Max Vel: 0.5275315361m/s, Area: 131300.0m², Vol: 41411.7m³

Step 700/29999, Sim Time: 381.965s (+5.444e-01s), Max Depth: 0.7358315826m, Max Vel: 0.5278038952m/s, Area: 131350.0m², Vol: 41690.3m³

Step 800/29999, Sim Time: 436.400s (+5.443e-01s), Max Depth: 0.7360231698m, Max Vel: 0.5280764466m/s, Area: 131450.0m², Vol: 41968.2m³

Step 900/29999, Sim Time: 490.825s (+5.442e-01s), Max Depth: 0.7361749373m, Max Vel: 0.5283706773m/s, Area: 131575.0m², Vol: 42245.5m³

Step 1000/29999, Sim Time: 545.241s (+5.441e-01s), Max Depth: 0.7362881650m, Max Vel: 0.5286868239m/s, Area: 131675.0m², Vol: 42522.8m³

Step 1100/29999, Sim Time: 599.648s (+5.440e-01s), Max Depth: 0.7363655921m, Max Vel: 0.5289843064m/s, Area: 131750.0m², Vol: 42799.6m³

Step 1200/29999, Sim Time: 654.049s (+5.440e-01s), Max Depth: 0.7363977770m, Max Vel: 0.5293016517m/s, Area: 131725.0m², Vol: 43075.7m³

Step 1300/29999, Sim Time: 708.444s (+5.439e-01s), Max Depth: 0.7363883014m, Max Vel: 0.5296213029m/s, Area: 131825.0m², Vol: 43350.7m³

Step 1400/29999, Sim Time: 762.834s (+5.439e-01s), Max Depth: 0.7363434216m, Max Vel: 0.5299390237m/s, Area: 131875.0m², Vol: 43625.1m³

Step 1500/29999, Sim Time: 817.221s (+5.439e-01s), Max Depth: 0.7362171078m, Max Vel: 0.5302848472m/s, Area: 131950.0m², Vol: 43898.6m³

Step 1600/29999, Sim Time: 871.607s (+5.439e-01s), Max Depth: 0.7360198308m, Max Vel: 0.5306636800m/s, Area: 131950.0m², Vol: 44171.3m³

Step 1700/29999, Sim Time: 925.994s (+5.439e-01s), Max Depth: 0.7357696108m, Max Vel: 0.5310550447m/s, Area: 132075.0m², Vol: 44443.1m³

Step 1800/29999, Sim Time: 980.382s (+5.439e-01s), Max Depth: 0.7354796033m, Max Vel: 0.5314501016m/s, Area: 132175.0m², Vol: 44714.6m³

Step 1900/29999, Sim Time: 1034.773s (+5.439e-01s), Max Depth: 0.7351588111m, Max Vel: 0.5318389079m/s, Area: 132250.0m², Vol: 44985.7m³

Step 2000/29999, Sim Time: 1089.168s (+5.440e-01s), Max Depth: 0.7348153517m, Max Vel: 0.5322344099m/s, Area: 132300.0m², Vol: 45256.5m³

Step 2100/29999, Sim Time: 1143.567s (+5.440e-01s), Max Depth: 0.7344596166m, Max Vel: 0.5326218679m/s, Area: 132300.0m², Vol: 45527.1m³

Step 2200/29999, Sim Time: 1197.970s (+5.441e-01s), Max Depth: 0.7340943662m, Max Vel: 0.5329917353m/s, Area: 132375.0m², Vol: 45797.4m³

Step 2300/29999, Sim Time: 1252.379s (+5.441e-01s), Max Depth: 0.7337269048m, Max Vel: 0.5333502319m/s, Area: 132475.0m², Vol: 46067.5m³

Step 2400/29999, Sim Time: 1306.793s (+5.442e-01s), Max Depth: 0.7333624840m, Max Vel: 0.5336914817m/s, Area: 132600.0m², Vol: 46337.6m³

Step 2500/29999, Sim Time: 1361.213s (+5.442e-01s), Max Depth: 0.7330054006m, Max Vel: 0.5340211193m/s, Area: 132600.0m², Vol: 46607.8m³

Step 2600/29999, Sim Time: 1415.638s (+5.443e-01s), Max Depth: 0.7326592838m, Max Vel: 0.5343398160m/s, Area: 132625.0m², Vol: 46878.3m³

Step 2700/29999, Sim Time: 1470.068s (+5.443e-01s), Max Depth: 0.7323270547m, Max Vel: 0.5346485615m/s, Area: 132625.0m², Vol: 47148.8m³

Step 2800/29999, Sim Time: 1524.503s (+5.444e-01s), Max Depth: 0.7320105740m, Max Vel: 0.5349463087m/s, Area: 132675.0m², Vol: 47419.3m³

Step 2900/29999, Sim Time: 1578.943s (+5.444e-01s), Max Depth: 0.7317110601m, Max Vel: 0.5352348414m/s, Area: 132750.0m², Vol: 47689.7m³

Step 3000/29999, Sim Time: 1633.387s (+5.445e-01s), Max Depth: 0.7314374068m, Max Vel: 0.5355116991m/s, Area: 132850.0m², Vol: 47960.4m³

Step 3100/29999, Sim Time: 1687.834s (+5.445e-01s), Max Depth: 0.7312278044m, Max Vel: 0.5357646356m/s, Area: 132875.0m², Vol: 48231.5m³

Step 3200/29999, Sim Time: 1742.283s (+5.445e-01s), Max Depth: 0.7310923206m, Max Vel: 0.5359907661m/s, Area: 132925.0m², Vol: 48503.3m³

Step 3300/29999, Sim Time: 1796.731s (+5.445e-01s), Max Depth: 0.7310218254m, Max Vel: 0.5361971470m/s, Area: 132925.0m², Vol: 48775.6m³

Step 3400/29999, Sim Time: 1851.176s (+5.444e-01s), Max Depth: 0.7310005319m, Max Vel: 0.5364009534m/s, Area: 140475.0m², Vol: 49047.8m³

Step 3500/29999, Sim Time: 1905.619s (+5.444e-01s), Max Depth: 0.7311376386m, Max Vel: 0.5364373971m/s, Area: 343250.0m², Vol: 49259.3m³

Step 3600/29999, Sim Time: 1927.572s (+1.380e-01s), Max Depth: 0.7315269803m, Max Vel: 9.9999999999m/s, Area: 418375.0m², Vol: 49304.7m³

Step 3700/29999, Sim Time: 1951.315s (+5.209e-01s), Max Depth: 0.7323432073m, Max Vel: 0.6688130565m/s, Area: 440725.0m², Vol: 49347.7m³

Step 3800/29999, Sim Time: 1975.131s (+5.126e-01s), Max Depth: 0.7332326271m, Max Vel: 0.7247888529m/s, Area: 443725.0m², Vol: 49383.8m³

Step 3900/29999, Sim Time: 2000.953s (+1.579e-01s), Max Depth: 0.7342338619m, Max Vel: 7.7401458412m/s, Area: 446025.0m², Vol: 49421.4m³

Step 4000/29999, Sim Time: 2029.737s (+1.379e-01s), Max Depth: 0.7357459561m, Max Vel: 9.9999999991m/s, Area: 448150.0m², Vol: 49462.1m³

Step 4100/29999, Sim Time: 2061.468s (+1.379e-01s), Max Depth: 0.7374518967m, Max Vel: 9.9999999998m/s, Area: 456200.0m², Vol: 49510.9m³

Step 4200/29999, Sim Time: 2080.871s (+1.379e-01s), Max Depth: 0.7387149655m, Max Vel: 9.9999999998m/s, Area: 459375.0m², Vol: 49549.8m³

Step 4300/29999, Sim Time: 2109.139s (+1.378e-01s), Max Depth: 0.7416604875m, Max Vel: 9.9999999998m/s, Area: 463425.0m², Vol: 49614.1m³

Step 4400/29999, Sim Time: 2146.209s (+5.222e-01s), Max Depth: 0.7453162432m, Max Vel: 0.6452126699m/s, Area: 470475.0m², Vol: 49712.8m³

Step 4500/29999, Sim Time: 2189.799s (+3.598e-01s), Max Depth: 0.7578925156m, Max Vel: 2.1510454582m/s, Area: 475000.0m², Vol: 49871.6m³

Step 4600/29999, Sim Time: 2213.119s (+1.374e-01s), Max Depth: 0.7644086922m, Max Vel: 9.9999999990m/s, Area: 480325.0m², Vol: 49984.9m³

Step 4700/29999, Sim Time: 2226.857s (+1.374e-01s), Max Depth: 0.7645152595m, Max Vel: 9.9999999990m/s, Area: 481200.0m², Vol: 50051.9m³

Step 4800/29999, Sim Time: 2240.593s (+1.373e-01s), Max Depth: 0.7672377490m, Max Vel: 9.9999999990m/s, Area: 480000.0m², Vol: 50122.5m³

Step 4900/29999, Sim Time: 2254.324s (+1.373e-01s), Max Depth: 0.7686383919m, Max Vel: 9.9999999990m/s, Area: 485425.0m², Vol: 50197.7m³

Step 5000/29999, Sim Time: 2268.049s (+1.372e-01s), Max Depth: 0.7731567839m, Max Vel: 9.9999999990m/s, Area: 486525.0m², Vol: 50277.3m³

Step 5100/29999, Sim Time: 2281.767s (+1.371e-01s), Max Depth: 0.7776198749m, Max Vel: 9.9999999990m/s, Area: 487325.0m², Vol: 50358.9m³

Step 5200/29999, Sim Time: 2295.474s (+1.370e-01s), Max Depth: 0.7831708095m, Max Vel: 9.9999999990m/s, Area: 488275.0m², Vol: 50442.5m³

Step 5300/29999, Sim Time: 2309.172s (+1.369e-01s), Max Depth: 0.7874545292m, Max Vel: 9.9999999990m/s, Area: 489500.0m², Vol: 50530.1m³

Step 5400/29999, Sim Time: 2322.862s (+1.369e-01s), Max Depth: 0.7917568782m, Max Vel: 9.9999999990m/s, Area: 492800.0m², Vol: 50620.4m³

Step 5500/29999, Sim Time: 2336.543s (+1.368e-01s), Max Depth: 0.7969759636m, Max Vel: 9.9999999990m/s, Area: 494150.0m², Vol: 50714.9m³

Step 5600/29999, Sim Time: 2350.214s (+1.367e-01s), Max Depth: 0.8024739861m, Max Vel: 9.9999999990m/s, Area: 494400.0m², Vol: 50812.2m³

Step 5700/29999, Sim Time: 2363.875s (+1.366e-01s), Max Depth: 0.8065748361m, Max Vel: 9.9999999990m/s, Area: 498300.0m², Vol: 50910.1m³

Step 5800/29999, Sim Time: 2377.531s (+1.365e-01s), Max Depth: 0.8093939233m, Max Vel: 9.9999999990m/s, Area: 498825.0m², Vol: 51005.0m³

Step 5900/29999, Sim Time: 2391.181s (+1.365e-01s), Max Depth: 0.8118792069m, Max Vel: 9.9999999990m/s, Area: 499775.0m², Vol: 51098.7m³

Step 6000/29999, Sim Time: 2404.827s (+1.364e-01s), Max Depth: 0.8152089848m, Max Vel: 9.9999999990m/s, Area: 501150.0m², Vol: 51193.1m³

Step 6100/29999, Sim Time: 2418.466s (+1.364e-01s), Max Depth: 0.8186695079m, Max Vel: 9.9999999990m/s, Area: 502925.0m², Vol: 51287.6m³

Step 6200/29999, Sim Time: 2432.099s (+1.363e-01s), Max Depth: 0.8216882235m, Max Vel: 9.9999999990m/s, Area: 503900.0m², Vol: 51379.3m³

Step 6300/29999, Sim Time: 2445.726s (+1.362e-01s), Max Depth: 0.8246409693m, Max Vel: 9.9999999990m/s, Area: 504700.0m², Vol: 51468.6m³

Step 6400/29999, Sim Time: 2459.348s (+1.362e-01s), Max Depth: 0.8274715808m, Max Vel: 9.9999999990m/s, Area: 506425.0m², Vol: 51559.4m³

Step 6500/29999, Sim Time: 2472.966s (+1.362e-01s), Max Depth: 0.8296944095m, Max Vel: 9.9999999990m/s, Area: 509850.0m², Vol: 51651.9m³

Step 6600/29999, Sim Time: 2486.579s (+1.361e-01s), Max Depth: 0.8318002574m, Max Vel: 9.9999999990m/s, Area: 510400.0m², Vol: 51742.8m³

Step 6700/29999, Sim Time: 2500.189s (+1.361e-01s), Max Depth: 0.8340434476m, Max Vel: 9.9999999990m/s, Area: 513600.0m², Vol: 51831.8m³

Step 6800/29999, Sim Time: 2513.795s (+1.360e-01s), Max Depth: 0.8362900187m, Max Vel: 9.9999999990m/s, Area: 512975.0m², Vol: 51920.6m³

Step 6900/29999, Sim Time: 2527.396s (+1.360e-01s), Max Depth: 0.8385860489m, Max Vel: 9.9999999990m/s, Area: 513100.0m², Vol: 52009.5m³

Step 7000/29999, Sim Time: 2540.994s (+1.360e-01s), Max Depth: 0.8410238592m, Max Vel: 9.9999999990m/s, Area: 513950.0m², Vol: 52099.0m³

Step 7100/29999, Sim Time: 2554.586s (+1.359e-01s), Max Depth: 0.8433653590m, Max Vel: 9.9999999990m/s, Area: 515950.0m², Vol: 52188.0m³

Step 7200/29999, Sim Time: 2568.175s (+1.359e-01s), Max Depth: 0.8453444184m, Max Vel: 9.9999999990m/s, Area: 520300.0m², Vol: 52277.6m³

Step 7300/29999, Sim Time: 2581.761s (+1.358e-01s), Max Depth: 0.8471689387m, Max Vel: 9.9999999990m/s, Area: 521400.0m², Vol: 52367.3m³

Step 7400/29999, Sim Time: 2595.343s (+1.358e-01s), Max Depth: 0.8489756006m, Max Vel: 9.9999999990m/s, Area: 520675.0m², Vol: 52455.7m³

Step 7500/29999, Sim Time: 2608.922s (+1.358e-01s), Max Depth: 0.8508177975m, Max Vel: 9.9999999990m/s, Area: 521350.0m², Vol: 52543.7m³

Step 7600/29999, Sim Time: 2622.499s (+1.357e-01s), Max Depth: 0.8523209513m, Max Vel: 9.9999999990m/s, Area: 509500.0m², Vol: 52567.2m³

Step 7700/29999, Sim Time: 2636.072s (+1.357e-01s), Max Depth: 0.8540799436m, Max Vel: 9.9999999990m/s, Area: 501800.0m², Vol: 52593.1m³

Step 7800/29999, Sim Time: 2649.641s (+1.357e-01s), Max Depth: 0.8565416299m, Max Vel: 9.9999999990m/s, Area: 497250.0m², Vol: 52622.0m³

Step 7900/29999, Sim Time: 2663.207s (+1.356e-01s), Max Depth: 0.8587008036m, Max Vel: 9.9999999990m/s, Area: 492700.0m², Vol: 52651.2m³

Step 8000/29999, Sim Time: 2676.768s (+1.356e-01s), Max Depth: 0.8612162204m, Max Vel: 9.9999999999m/s, Area: 489475.0m², Vol: 52684.5m³

Step 8100/29999, Sim Time: 2690.325s (+1.355e-01s), Max Depth: 0.8636344769m, Max Vel: 9.9999999990m/s, Area: 484300.0m², Vol: 52723.2m³

Step 8200/29999, Sim Time: 2703.877s (+1.355e-01s), Max Depth: 0.8657853572m, Max Vel: 9.9999999990m/s, Area: 481450.0m², Vol: 52760.7m³

Step 8300/29999, Sim Time: 2717.427s (+1.355e-01s), Max Depth: 0.8676140275m, Max Vel: 9.9999999990m/s, Area: 478500.0m², Vol: 52798.6m³

Step 8400/29999, Sim Time: 2730.973s (+1.355e-01s), Max Depth: 0.8689611921m, Max Vel: 9.9999999990m/s, Area: 475500.0m², Vol: 52836.4m³

Step 8500/29999, Sim Time: 2744.517s (+1.354e-01s), Max Depth: 0.8701861645m, Max Vel: 9.9999999990m/s, Area: 474900.0m², Vol: 52874.1m³

Step 8600/29999, Sim Time: 2758.059s (+1.354e-01s), Max Depth: 0.8708911719m, Max Vel: 9.9999999990m/s, Area: 470650.0m², Vol: 52910.3m³

Step 8700/29999, Sim Time: 2771.601s (+1.354e-01s), Max Depth: 0.8713712903m, Max Vel: 9.9999999990m/s, Area: 468350.0m², Vol: 52945.5m³

Step 8800/29999, Sim Time: 2785.141s (+1.354e-01s), Max Depth: 0.8719759192m, Max Vel: 9.9999999990m/s, Area: 465775.0m², Vol: 52980.9m³

Step 8900/29999, Sim Time: 2798.681s (+1.354e-01s), Max Depth: 0.8723480894m, Max Vel: 9.9999999990m/s, Area: 463300.0m², Vol: 53015.2m³

Step 9000/29999, Sim Time: 2812.220s (+1.354e-01s), Max Depth: 0.8729618596m, Max Vel: 9.9999999990m/s, Area: 462925.0m², Vol: 53048.8m³

Step 9100/29999, Sim Time: 2825.757s (+1.354e-01s), Max Depth: 0.8737171035m, Max Vel: 9.9999999990m/s, Area: 461225.0m², Vol: 53082.8m³

Step 9200/29999, Sim Time: 2839.294s (+1.354e-01s), Max Depth: 0.8739427411m, Max Vel: 9.9999999990m/s, Area: 459225.0m², Vol: 53116.7m³

Step 9300/29999, Sim Time: 2852.830s (+1.354e-01s), Max Depth: 0.8740736591m, Max Vel: 9.9999999990m/s, Area: 456800.0m², Vol: 53149.9m³

Step 9400/29999, Sim Time: 2866.366s (+1.354e-01s), Max Depth: 0.8745975181m, Max Vel: 9.9999999990m/s, Area: 454650.0m², Vol: 53182.4m³

Step 9500/29999, Sim Time: 2879.901s (+1.353e-01s), Max Depth: 0.8748138888m, Max Vel: 9.9999999990m/s, Area: 453450.0m², Vol: 53215.9m³

Step 9600/29999, Sim Time: 2893.436s (+1.353e-01s), Max Depth: 0.8749799178m, Max Vel: 9.9999999990m/s, Area: 450975.0m², Vol: 53247.6m³

Step 9700/29999, Sim Time: 2906.970s (+1.353e-01s), Max Depth: 0.8753608749m, Max Vel: 9.9999999990m/s, Area: 451075.0m², Vol: 53279.7m³

Step 9800/29999, Sim Time: 2920.504s (+1.353e-01s), Max Depth: 0.8755233408m, Max Vel: 9.9999999998m/s, Area: 448475.0m², Vol: 53313.5m³

Step 9900/29999, Sim Time: 2934.038s (+1.353e-01s), Max Depth: 0.8755171799m, Max Vel: 9.9999999990m/s, Area: 448250.0m², Vol: 53348.9m³

Step 10000/29999, Sim Time: 2947.571s (+1.353e-01s), Max Depth: 0.8755659763m, Max Vel: 9.9999999990m/s, Area: 447550.0m², Vol: 53382.8m³

Step 10100/29999, Sim Time: 2961.105s (+1.353e-01s), Max Depth: 0.8755091576m, Max Vel: 9.9999999990m/s, Area: 445925.0m², Vol: 53415.3m³

Step 10200/29999, Sim Time: 2974.639s (+1.353e-01s), Max Depth: 0.8754463699m, Max Vel: 9.9999999990m/s, Area: 444150.0m², Vol: 53448.4m³

Step 10300/29999, Sim Time: 2988.173s (+1.353e-01s), Max Depth: 0.8753916236m, Max Vel: 9.9999999990m/s, Area: 443050.0m², Vol: 53483.0m³

Step 10400/29999, Sim Time: 3001.707s (+1.353e-01s), Max Depth: 0.8753115652m, Max Vel: 9.9999999990m/s, Area: 442200.0m², Vol: 53516.7m³

Step 10500/29999, Sim Time: 3015.241s (+1.353e-01s), Max Depth: 0.8751906833m, Max Vel: 9.9999999990m/s, Area: 440075.0m², Vol: 53551.1m³

Step 10600/29999, Sim Time: 3028.775s (+1.353e-01s), Max Depth: 0.8751452935m, Max Vel: 9.9999999990m/s, Area: 440025.0m², Vol: 53585.8m³

Step 10700/29999, Sim Time: 3042.310s (+1.353e-01s), Max Depth: 0.8749530739m, Max Vel: 9.9999999990m/s, Area: 438600.0m², Vol: 53620.7m³

Step 10800/29999, Sim Time: 3055.844s (+1.353e-01s), Max Depth: 0.8750264810m, Max Vel: 9.9999999998m/s, Area: 436400.0m², Vol: 53656.7m³

Step 10900/29999, Sim Time: 3069.379s (+1.353e-01s), Max Depth: 0.8752613134m, Max Vel: 9.9999999999m/s, Area: 436500.0m², Vol: 53696.7m³

Step 11000/29999, Sim Time: 3082.913s (+1.353e-01s), Max Depth: 0.8754705912m, Max Vel: 9.9999999990m/s, Area: 435825.0m², Vol: 53738.6m³

Step 11100/29999, Sim Time: 3096.446s (+1.353e-01s), Max Depth: 0.8756740565m, Max Vel: 9.9999999990m/s, Area: 435525.0m², Vol: 53781.1m³

Step 11200/29999, Sim Time: 3109.980s (+1.353e-01s), Max Depth: 0.8759191478m, Max Vel: 9.9999999990m/s, Area: 433225.0m², Vol: 53825.3m³

Step 11300/29999, Sim Time: 3123.513s (+1.353e-01s), Max Depth: 0.8758533200m, Max Vel: 9.9999999990m/s, Area: 433700.0m², Vol: 53871.5m³

Step 11400/29999, Sim Time: 3137.046s (+1.353e-01s), Max Depth: 0.8760681436m, Max Vel: 9.9999999990m/s, Area: 430775.0m², Vol: 53920.1m³

Step 11500/29999, Sim Time: 3150.578s (+1.353e-01s), Max Depth: 0.8761203209m, Max Vel: 9.9999999990m/s, Area: 431475.0m², Vol: 53969.7m³

Step 11600/29999, Sim Time: 3164.111s (+1.353e-01s), Max Depth: 0.8759591317m, Max Vel: 9.9999999990m/s, Area: 429375.0m², Vol: 54019.4m³

Step 11700/29999, Sim Time: 3177.644s (+1.353e-01s), Max Depth: 0.8756587004m, Max Vel: 9.9999999990m/s, Area: 429300.0m², Vol: 54069.1m³

Step 11800/29999, Sim Time: 3191.178s (+1.353e-01s), Max Depth: 0.8753188551m, Max Vel: 9.9999999990m/s, Area: 428100.0m², Vol: 54118.5m³

Step 11900/29999, Sim Time: 3204.712s (+1.353e-01s), Max Depth: 0.8749743502m, Max Vel: 9.9999999990m/s, Area: 426250.0m², Vol: 54168.5m³

Step 12000/29999, Sim Time: 3218.248s (+1.354e-01s), Max Depth: 0.8740955190m, Max Vel: 9.9999999990m/s, Area: 425200.0m², Vol: 54217.9m³

Step 12100/29999, Sim Time: 3231.785s (+1.354e-01s), Max Depth: 0.8734203481m, Max Vel: 9.9999999990m/s, Area: 424550.0m², Vol: 54264.8m³

Step 12200/29999, Sim Time: 3245.322s (+1.354e-01s), Max Depth: 0.8730455541m, Max Vel: 9.9999999990m/s, Area: 423975.0m², Vol: 54310.3m³

Step 12300/29999, Sim Time: 3258.861s (+1.354e-01s), Max Depth: 0.8718875782m, Max Vel: 9.9999999990m/s, Area: 423525.0m², Vol: 54353.6m³

Step 12400/29999, Sim Time: 3272.402s (+1.354e-01s), Max Depth: 0.8712135762m, Max Vel: 9.9999999990m/s, Area: 423725.0m², Vol: 54392.6m³

Step 12500/29999, Sim Time: 3285.943s (+1.354e-01s), Max Depth: 0.8718101266m, Max Vel: 9.9999999990m/s, Area: 421975.0m², Vol: 54430.4m³

Step 12600/29999, Sim Time: 3299.483s (+1.354e-01s), Max Depth: 0.8724967450m, Max Vel: 9.9999999990m/s, Area: 420850.0m², Vol: 54466.1m³

Step 12700/29999, Sim Time: 3313.022s (+1.354e-01s), Max Depth: 0.8725530317m, Max Vel: 9.9999999990m/s, Area: 420950.0m², Vol: 54499.4m³

Step 12800/29999, Sim Time: 3326.560s (+1.354e-01s), Max Depth: 0.8733519802m, Max Vel: 9.9999999990m/s, Area: 420025.0m², Vol: 54530.9m³

Step 12900/29999, Sim Time: 3340.097s (+1.354e-01s), Max Depth: 0.8741791897m, Max Vel: 9.9999999990m/s, Area: 419375.0m², Vol: 54561.4m³

Step 13000/29999, Sim Time: 3353.632s (+1.353e-01s), Max Depth: 0.8751761020m, Max Vel: 9.9999999990m/s, Area: 417850.0m², Vol: 54591.6m³

Step 13100/29999, Sim Time: 3367.165s (+1.353e-01s), Max Depth: 0.8760983936m, Max Vel: 9.9999999990m/s, Area: 416850.0m², Vol: 54622.0m³

Step 13200/29999, Sim Time: 3380.697s (+1.353e-01s), Max Depth: 0.8770119861m, Max Vel: 9.9999999990m/s, Area: 417650.0m², Vol: 54652.4m³

Step 13300/29999, Sim Time: 3394.227s (+1.353e-01s), Max Depth: 0.8781976720m, Max Vel: 9.9999999990m/s, Area: 416125.0m², Vol: 54683.2m³

Step 13400/29999, Sim Time: 3407.755s (+1.353e-01s), Max Depth: 0.8796334425m, Max Vel: 9.9999999990m/s, Area: 414025.0m², Vol: 54714.7m³

Step 13500/29999, Sim Time: 3421.281s (+1.352e-01s), Max Depth: 0.8807631616m, Max Vel: 9.9999999990m/s, Area: 412950.0m², Vol: 54746.7m³

Step 13600/29999, Sim Time: 3434.804s (+1.352e-01s), Max Depth: 0.8821551495m, Max Vel: 9.9999999990m/s, Area: 413075.0m², Vol: 54780.9m³

Step 13700/29999, Sim Time: 3448.325s (+1.352e-01s), Max Depth: 0.8835179513m, Max Vel: 9.9999999992m/s, Area: 412175.0m², Vol: 54816.7m³

Step 13800/29999, Sim Time: 3461.844s (+1.352e-01s), Max Depth: 0.8843745696m, Max Vel: 9.9999999990m/s, Area: 412375.0m², Vol: 54850.8m³

Step 13900/29999, Sim Time: 3475.361s (+1.352e-01s), Max Depth: 0.8853012102m, Max Vel: 9.9999999990m/s, Area: 411050.0m², Vol: 54884.5m³

Step 14000/29999, Sim Time: 3488.877s (+1.352e-01s), Max Depth: 0.8861390981m, Max Vel: 9.9999999990m/s, Area: 410825.0m², Vol: 54918.3m³

Step 14100/29999, Sim Time: 3502.392s (+1.351e-01s), Max Depth: 0.8869256558m, Max Vel: 9.9999999990m/s, Area: 408975.0m², Vol: 54951.1m³

Step 14200/29999, Sim Time: 3515.905s (+1.351e-01s), Max Depth: 0.8879037178m, Max Vel: 9.9999999990m/s, Area: 409950.0m², Vol: 54984.1m³

Step 14300/29999, Sim Time: 3529.416s (+1.351e-01s), Max Depth: 0.8892634324m, Max Vel: 9.9999999990m/s, Area: 408725.0m², Vol: 55019.1m³

Step 14400/29999, Sim Time: 3542.925s (+1.351e-01s), Max Depth: 0.8904895476m, Max Vel: 9.9999999990m/s, Area: 407550.0m², Vol: 55055.0m³

Step 14500/29999, Sim Time: 3556.431s (+1.351e-01s), Max Depth: 0.8918062554m, Max Vel: 9.9999999990m/s, Area: 407500.0m², Vol: 55091.7m³

Step 14600/29999, Sim Time: 3569.935s (+1.350e-01s), Max Depth: 0.8933231506m, Max Vel: 9.9999999990m/s, Area: 407100.0m², Vol: 55129.8m³

Step 14700/29999, Sim Time: 3583.436s (+1.350e-01s), Max Depth: 0.8951718966m, Max Vel: 9.9999999990m/s, Area: 407375.0m², Vol: 55170.3m³

Step 14800/29999, Sim Time: 3596.934s (+1.350e-01s), Max Depth: 0.8970889110m, Max Vel: 9.9999999990m/s, Area: 406350.0m², Vol: 55211.5m³

Step 14900/29999, Sim Time: 3610.429s (+1.349e-01s), Max Depth: 0.8994746725m, Max Vel: 9.9999999990m/s, Area: 404875.0m², Vol: 55256.2m³

Step 15000/29999, Sim Time: 3623.919s (+1.349e-01s), Max Depth: 0.9020490568m, Max Vel: 9.9999999990m/s, Area: 404650.0m², Vol: 55304.2m³

Step 15100/29999, Sim Time: 3637.404s (+1.348e-01s), Max Depth: 0.9048089085m, Max Vel: 9.9999999997m/s, Area: 404300.0m², Vol: 55357.9m³

Step 15200/29999, Sim Time: 3650.884s (+1.348e-01s), Max Depth: 0.9080822482m, Max Vel: 9.9999999990m/s, Area: 403600.0m², Vol: 55413.0m³

Step 15300/29999, Sim Time: 3664.359s (+1.347e-01s), Max Depth: 0.9114291963m, Max Vel: 9.9999999990m/s, Area: 402550.0m², Vol: 55469.5m³

Step 15400/29999, Sim Time: 3677.828s (+1.347e-01s), Max Depth: 0.9144838921m, Max Vel: 9.9999999990m/s, Area: 402500.0m², Vol: 55529.9m³

Step 15500/29999, Sim Time: 3691.292s (+1.346e-01s), Max Depth: 0.9178457910m, Max Vel: 9.9999999990m/s, Area: 401325.0m², Vol: 55592.1m³

Step 15600/29999, Sim Time: 3704.750s (+1.345e-01s), Max Depth: 0.9213581117m, Max Vel: 9.9999999996m/s, Area: 401325.0m², Vol: 55661.3m³

Step 15700/29999, Sim Time: 3718.202s (+1.345e-01s), Max Depth: 0.9245373441m, Max Vel: 9.9999999990m/s, Area: 399900.0m², Vol: 55733.3m³

Step 15800/29999, Sim Time: 3731.649s (+1.344e-01s), Max Depth: 0.9279053517m, Max Vel: 9.9999999990m/s, Area: 399350.0m², Vol: 55809.4m³

Step 15900/29999, Sim Time: 3745.089s (+1.344e-01s), Max Depth: 0.9323949347m, Max Vel: 9.9999999990m/s, Area: 400775.0m², Vol: 55890.6m³

Step 16000/29999, Sim Time: 3758.521s (+1.343e-01s), Max Depth: 0.9375574590m, Max Vel: 9.9999999990m/s, Area: 399850.0m², Vol: 55976.8m³

Step 16100/29999, Sim Time: 3771.946s (+1.342e-01s), Max Depth: 0.9411631212m, Max Vel: 9.9999999990m/s, Area: 399100.0m², Vol: 56067.2m³

Step 16200/29999, Sim Time: 3785.365s (+1.342e-01s), Max Depth: 0.9446511536m, Max Vel: 9.9999999990m/s, Area: 399150.0m², Vol: 56160.3m³

Step 16300/29999, Sim Time: 3798.778s (+1.341e-01s), Max Depth: 0.9477297926m, Max Vel: 9.9999999990m/s, Area: 397425.0m², Vol: 56255.8m³

Step 16400/29999, Sim Time: 3812.186s (+1.341e-01s), Max Depth: 0.9508122464m, Max Vel: 9.9999999990m/s, Area: 397825.0m², Vol: 56352.4m³

Step 16500/29999, Sim Time: 3825.590s (+1.340e-01s), Max Depth: 0.9529008554m, Max Vel: 9.9999999990m/s, Area: 397500.0m², Vol: 56449.2m³

Step 16600/29999, Sim Time: 3838.990s (+1.340e-01s), Max Depth: 0.9559095800m, Max Vel: 9.9999999990m/s, Area: 396725.0m², Vol: 56545.2m³

Step 16700/29999, Sim Time: 3852.385s (+1.339e-01s), Max Depth: 0.9592718466m, Max Vel: 9.9999999990m/s, Area: 396250.0m², Vol: 56641.1m³

Step 16800/29999, Sim Time: 3865.775s (+1.339e-01s), Max Depth: 0.9616602853m, Max Vel: 9.9999999990m/s, Area: 396625.0m², Vol: 56736.9m³

Step 16900/29999, Sim Time: 3879.161s (+1.339e-01s), Max Depth: 0.9633451195m, Max Vel: 9.9999999990m/s, Area: 395950.0m², Vol: 56833.8m³

Step 17000/29999, Sim Time: 3892.544s (+1.338e-01s), Max Depth: 0.9663023505m, Max Vel: 9.9999999990m/s, Area: 395000.0m², Vol: 56930.7m³

Step 17100/29999, Sim Time: 3905.921s (+1.337e-01s), Max Depth: 0.9706192722m, Max Vel: 9.9999999990m/s, Area: 395225.0m², Vol: 57027.0m³

Step 17200/29999, Sim Time: 3919.293s (+1.337e-01s), Max Depth: 0.9726894355m, Max Vel: 9.9999999990m/s, Area: 395075.0m², Vol: 57119.7m³

Step 17300/29999, Sim Time: 3932.662s (+1.337e-01s), Max Depth: 0.9736375960m, Max Vel: 9.9999999990m/s, Area: 392225.0m², Vol: 57207.1m³

Step 17400/29999, Sim Time: 3946.028s (+1.336e-01s), Max Depth: 0.9760876588m, Max Vel: 9.9999999990m/s, Area: 392700.0m², Vol: 57292.6m³

Step 17500/29999, Sim Time: 3959.390s (+1.336e-01s), Max Depth: 0.9801084412m, Max Vel: 9.9999999990m/s, Area: 392800.0m², Vol: 57381.2m³

Step 17600/29999, Sim Time: 3972.744s (+1.335e-01s), Max Depth: 0.9842185042m, Max Vel: 9.9999999990m/s, Area: 392675.0m², Vol: 57471.9m³

Step 17700/29999, Sim Time: 3986.094s (+1.335e-01s), Max Depth: 0.9853797848m, Max Vel: 9.9999999990m/s, Area: 391250.0m², Vol: 57560.7m³

Step 17800/29999, Sim Time: 3999.443s (+1.335e-01s), Max Depth: 0.9863903433m, Max Vel: 9.9999999990m/s, Area: 390575.0m², Vol: 57645.4m³

Step 17900/29999, Sim Time: 4012.790s (+1.334e-01s), Max Depth: 0.9884435754m, Max Vel: 9.9999999990m/s, Area: 390625.0m², Vol: 57729.8m³

Step 18000/29999, Sim Time: 4026.132s (+1.334e-01s), Max Depth: 0.9909944710m, Max Vel: 9.9999999990m/s, Area: 390125.0m², Vol: 57813.8m³

Step 18100/29999, Sim Time: 4039.471s (+1.334e-01s), Max Depth: 0.9927903254m, Max Vel: 9.9999999990m/s, Area: 390525.0m², Vol: 57896.0m³

Step 18200/29999, Sim Time: 4052.808s (+1.334e-01s), Max Depth: 0.9940296506m, Max Vel: 9.9999999990m/s, Area: 388925.0m², Vol: 57977.0m³

Step 18300/29999, Sim Time: 4066.142s (+1.333e-01s), Max Depth: 0.9954850806m, Max Vel: 9.9999999990m/s, Area: 388725.0m², Vol: 58057.2m³

Step 18400/29999, Sim Time: 4079.474s (+1.333e-01s), Max Depth: 0.9980397079m, Max Vel: 9.9999999990m/s, Area: 389075.0m², Vol: 58136.9m³

Step 18500/29999, Sim Time: 4092.801s (+1.333e-01s), Max Depth: 1.0006800893m, Max Vel: 9.9999999990m/s, Area: 388125.0m², Vol: 58217.0m³

Step 18600/29999, Sim Time: 4106.125s (+1.332e-01s), Max Depth: 1.0019320695m, Max Vel: 9.9999999990m/s, Area: 388375.0m², Vol: 58297.0m³

Step 18700/29999, Sim Time: 4119.447s (+1.332e-01s), Max Depth: 1.0035229622m, Max Vel: 9.9999999990m/s, Area: 387750.0m², Vol: 58377.2m³

Step 18800/29999, Sim Time: 4132.766s (+1.332e-01s), Max Depth: 1.0051283062m, Max Vel: 9.9999999990m/s, Area: 387400.0m², Vol: 58458.7m³

Step 18900/29999, Sim Time: 4146.083s (+1.332e-01s), Max Depth: 1.0065001174m, Max Vel: 9.9999999999m/s, Area: 386925.0m², Vol: 58540.1m³

Step 19000/29999, Sim Time: 4159.398s (+1.331e-01s), Max Depth: 1.0074813058m, Max Vel: 9.9999999990m/s, Area: 386500.0m², Vol: 58621.3m³

Step 19100/29999, Sim Time: 4172.711s (+1.331e-01s), Max Depth: 1.0088944160m, Max Vel: 9.9999999990m/s, Area: 385100.0m², Vol: 58698.8m³

Step 19200/29999, Sim Time: 4186.022s (+1.331e-01s), Max Depth: 1.0108703323m, Max Vel: 9.9999999990m/s, Area: 386150.0m², Vol: 58776.6m³

Step 19300/29999, Sim Time: 4199.329s (+1.331e-01s), Max Depth: 1.0132974929m, Max Vel: 9.9999999990m/s, Area: 385325.0m², Vol: 58856.5m³

Step 19400/29999, Sim Time: 4212.632s (+1.330e-01s), Max Depth: 1.0156675286m, Max Vel: 9.9999999990m/s, Area: 385475.0m², Vol: 58939.1m³

Step 19500/29999, Sim Time: 4225.931s (+1.330e-01s), Max Depth: 1.0183974228m, Max Vel: 9.9999999990m/s, Area: 384900.0m², Vol: 59024.8m³

Step 19600/29999, Sim Time: 4239.226s (+1.329e-01s), Max Depth: 1.0214203316m, Max Vel: 9.9999999990m/s, Area: 385675.0m², Vol: 59113.5m³

Step 19700/29999, Sim Time: 4252.516s (+1.329e-01s), Max Depth: 1.0240652928m, Max Vel: 9.9999999990m/s, Area: 384500.0m², Vol: 59206.1m³

Step 19800/29999, Sim Time: 4265.803s (+1.328e-01s), Max Depth: 1.0267754794m, Max Vel: 9.9999999990m/s, Area: 385450.0m², Vol: 59302.8m³

Step 19900/29999, Sim Time: 4279.084s (+1.328e-01s), Max Depth: 1.0296563590m, Max Vel: 9.9999999990m/s, Area: 384875.0m², Vol: 59405.3m³

Step 20000/29999, Sim Time: 4292.361s (+1.327e-01s), Max Depth: 1.0330154546m, Max Vel: 9.9999999990m/s, Area: 384600.0m², Vol: 59515.9m³

Step 20100/29999, Sim Time: 4305.633s (+1.327e-01s), Max Depth: 1.0360780439m, Max Vel: 9.9999999990m/s, Area: 382675.0m², Vol: 59633.0m³

Step 20200/29999, Sim Time: 4318.901s (+1.327e-01s), Max Depth: 1.0382349626m, Max Vel: 9.9999999990m/s, Area: 383075.0m², Vol: 59755.1m³

Step 20300/29999, Sim Time: 4332.165s (+1.326e-01s), Max Depth: 1.0413493963m, Max Vel: 9.9999999990m/s, Area: 383725.0m², Vol: 59882.9m³

Step 20400/29999, Sim Time: 4345.424s (+1.326e-01s), Max Depth: 1.0447572709m, Max Vel: 9.9999999990m/s, Area: 384000.0m², Vol: 60016.9m³

Step 20500/29999, Sim Time: 4358.677s (+1.325e-01s), Max Depth: 1.0482020251m, Max Vel: 9.9999999990m/s, Area: 383475.0m², Vol: 60155.2m³

Step 20600/29999, Sim Time: 4371.926s (+1.325e-01s), Max Depth: 1.0503829698m, Max Vel: 9.9999999990m/s, Area: 385000.0m², Vol: 60293.3m³

Step 20700/29999, Sim Time: 4385.173s (+1.325e-01s), Max Depth: 1.0519975432m, Max Vel: 9.9999999990m/s, Area: 383400.0m², Vol: 60428.2m³

Step 20800/29999, Sim Time: 4398.416s (+1.324e-01s), Max Depth: 1.0536400485m, Max Vel: 9.9999999990m/s, Area: 382750.0m², Vol: 60560.2m³

Step 20900/29999, Sim Time: 4411.659s (+1.324e-01s), Max Depth: 1.0542421532m, Max Vel: 9.9999999990m/s, Area: 382925.0m², Vol: 60688.4m³

Step 21000/29999, Sim Time: 4424.899s (+1.324e-01s), Max Depth: 1.0554758376m, Max Vel: 9.9999999990m/s, Area: 383200.0m², Vol: 60814.0m³

Step 21100/29999, Sim Time: 4438.139s (+1.324e-01s), Max Depth: 1.0556161930m, Max Vel: 9.9999999998m/s, Area: 381450.0m², Vol: 60940.6m³

Step 21200/29999, Sim Time: 4451.378s (+1.324e-01s), Max Depth: 1.0564133263m, Max Vel: 9.9999999990m/s, Area: 382800.0m², Vol: 61069.1m³

Step 21300/29999, Sim Time: 4464.615s (+1.324e-01s), Max Depth: 1.0574609638m, Max Vel: 9.9999999990m/s, Area: 382775.0m², Vol: 61198.0m³

Step 21400/29999, Sim Time: 4477.851s (+1.323e-01s), Max Depth: 1.0591629372m, Max Vel: 9.9999999990m/s, Area: 382275.0m², Vol: 61333.4m³

Step 21500/29999, Sim Time: 4491.084s (+1.323e-01s), Max Depth: 1.0602582928m, Max Vel: 9.9999999990m/s, Area: 382575.0m², Vol: 61477.6m³

Step 21600/29999, Sim Time: 4504.313s (+1.323e-01s), Max Depth: 1.0644610580m, Max Vel: 9.9999999990m/s, Area: 381650.0m², Vol: 61623.4m³

Step 21700/29999, Sim Time: 4517.537s (+1.322e-01s), Max Depth: 1.0678800703m, Max Vel: 9.9999999990m/s, Area: 383275.0m², Vol: 61767.8m³

Step 21800/29999, Sim Time: 4530.757s (+1.322e-01s), Max Depth: 1.0683982493m, Max Vel: 9.9999999990m/s, Area: 381700.0m², Vol: 61908.8m³

Step 21900/29999, Sim Time: 4543.975s (+1.322e-01s), Max Depth: 1.0710540763m, Max Vel: 9.9999999990m/s, Area: 381325.0m², Vol: 62043.4m³

Step 22000/29999, Sim Time: 4557.189s (+1.321e-01s), Max Depth: 1.0738918264m, Max Vel: 9.9999999990m/s, Area: 380250.0m², Vol: 62171.1m³

Step 22100/29999, Sim Time: 4570.400s (+1.321e-01s), Max Depth: 1.0750420902m, Max Vel: 9.9999999990m/s, Area: 381675.0m², Vol: 62296.1m³

Step 22200/29999, Sim Time: 4583.608s (+1.321e-01s), Max Depth: 1.0780257739m, Max Vel: 9.9999999990m/s, Area: 380275.0m², Vol: 62417.6m³

Step 22300/29999, Sim Time: 4596.811s (+1.320e-01s), Max Depth: 1.0813945104m, Max Vel: 9.9999999990m/s, Area: 380150.0m², Vol: 62535.5m³

Step 22400/29999, Sim Time: 4610.010s (+1.320e-01s), Max Depth: 1.0841411372m, Max Vel: 9.9999999990m/s, Area: 380375.0m², Vol: 62649.3m³

Step 22500/29999, Sim Time: 4623.206s (+1.320e-01s), Max Depth: 1.0849627987m, Max Vel: 9.9999999990m/s, Area: 380275.0m², Vol: 62759.7m³

Step 22600/29999, Sim Time: 4636.398s (+1.319e-01s), Max Depth: 1.0889046661m, Max Vel: 9.9999999990m/s, Area: 379775.0m², Vol: 62867.8m³

Step 22700/29999, Sim Time: 4649.583s (+1.318e-01s), Max Depth: 1.0951322534m, Max Vel: 9.9999999990m/s, Area: 379350.0m², Vol: 62979.3m³

Step 22800/29999, Sim Time: 4662.758s (+1.317e-01s), Max Depth: 1.1018560910m, Max Vel: 9.9999999990m/s, Area: 377850.0m², Vol: 63095.8m³

Step 22900/29999, Sim Time: 4675.926s (+1.317e-01s), Max Depth: 1.1043892061m, Max Vel: 9.9999999990m/s, Area: 377675.0m², Vol: 63214.0m³

Step 23000/29999, Sim Time: 4689.090s (+1.316e-01s), Max Depth: 1.1084945238m, Max Vel: 9.9999999990m/s, Area: 377275.0m², Vol: 63334.0m³

Step 23100/29999, Sim Time: 4702.245s (+1.315e-01s), Max Depth: 1.1153300363m, Max Vel: 9.9999999990m/s, Area: 377500.0m², Vol: 63457.4m³

Step 23200/29999, Sim Time: 4715.391s (+1.314e-01s), Max Depth: 1.1202819874m, Max Vel: 9.9999999990m/s, Area: 377425.0m², Vol: 63582.7m³

Step 23300/29999, Sim Time: 4728.532s (+1.314e-01s), Max Depth: 1.1223450482m, Max Vel: 9.9999999990m/s, Area: 376525.0m², Vol: 63707.3m³

Step 23400/29999, Sim Time: 4741.672s (+1.314e-01s), Max Depth: 1.1234615454m, Max Vel: 9.9999999990m/s, Area: 374150.0m², Vol: 63830.3m³

Step 23500/29999, Sim Time: 4754.807s (+1.313e-01s), Max Depth: 1.1271273642m, Max Vel: 9.9999999990m/s, Area: 376625.0m², Vol: 63952.9m³

Step 23600/29999, Sim Time: 4767.939s (+1.313e-01s), Max Depth: 1.1293578359m, Max Vel: 9.9999999990m/s, Area: 375925.0m², Vol: 64072.4m³

Step 23700/29999, Sim Time: 4781.068s (+1.313e-01s), Max Depth: 1.1287563246m, Max Vel: 9.9999999990m/s, Area: 374900.0m², Vol: 64185.7m³

Step 23800/29999, Sim Time: 4794.201s (+1.313e-01s), Max Depth: 1.1270162962m, Max Vel: 9.9999999990m/s, Area: 373050.0m², Vol: 64292.2m³

Step 23900/29999, Sim Time: 4807.334s (+1.313e-01s), Max Depth: 1.1264996940m, Max Vel: 9.9999999990m/s, Area: 373475.0m², Vol: 64390.1m³

Step 24000/29999, Sim Time: 4820.468s (+1.313e-01s), Max Depth: 1.1262770721m, Max Vel: 9.9999999990m/s, Area: 373325.0m², Vol: 64477.0m³

Step 24100/29999, Sim Time: 4833.603s (+1.314e-01s), Max Depth: 1.1249960994m, Max Vel: 9.9999999990m/s, Area: 372775.0m², Vol: 64556.2m³

Step 24200/29999, Sim Time: 4846.740s (+1.314e-01s), Max Depth: 1.1244223841m, Max Vel: 9.9999999990m/s, Area: 373350.0m², Vol: 64631.0m³

Step 24300/29999, Sim Time: 4859.877s (+1.314e-01s), Max Depth: 1.1241087841m, Max Vel: 9.9999999990m/s, Area: 373725.0m², Vol: 64700.3m³

Step 24400/29999, Sim Time: 4873.014s (+1.314e-01s), Max Depth: 1.1238646621m, Max Vel: 9.9999999990m/s, Area: 372775.0m², Vol: 64762.6m³

Step 24500/29999, Sim Time: 4886.152s (+1.314e-01s), Max Depth: 1.1236258837m, Max Vel: 9.9999999990m/s, Area: 371500.0m², Vol: 64821.3m³

Step 24600/29999, Sim Time: 4899.291s (+1.314e-01s), Max Depth: 1.1227321595m, Max Vel: 9.9999999990m/s, Area: 371400.0m², Vol: 64877.9m³

Step 24700/29999, Sim Time: 4912.430s (+1.314e-01s), Max Depth: 1.1229818091m, Max Vel: 9.9999999992m/s, Area: 370800.0m², Vol: 64933.2m³

Step 24800/29999, Sim Time: 4925.569s (+1.314e-01s), Max Depth: 1.1226211552m, Max Vel: 9.9999999990m/s, Area: 370525.0m², Vol: 64983.5m³

Step 24900/29999, Sim Time: 4938.709s (+1.314e-01s), Max Depth: 1.1222986270m, Max Vel: 9.9999999990m/s, Area: 371525.0m², Vol: 65029.8m³

Step 25000/29999, Sim Time: 4951.850s (+1.314e-01s), Max Depth: 1.1218260800m, Max Vel: 9.9999999990m/s, Area: 371350.0m², Vol: 65072.7m³

Step 25100/29999, Sim Time: 4964.990s (+1.314e-01s), Max Depth: 1.1214981152m, Max Vel: 9.9999999990m/s, Area: 370425.0m², Vol: 65112.3m³

Step 25200/29999, Sim Time: 4978.132s (+1.314e-01s), Max Depth: 1.1208064255m, Max Vel: 9.9999999990m/s, Area: 370525.0m², Vol: 65147.7m³

Step 25300/29999, Sim Time: 4991.275s (+1.314e-01s), Max Depth: 1.1199262505m, Max Vel: 9.9999999990m/s, Area: 371175.0m², Vol: 65178.7m³

Step 25400/29999, Sim Time: 5004.419s (+1.314e-01s), Max Depth: 1.1196584674m, Max Vel: 9.9999999990m/s, Area: 370125.0m², Vol: 65208.1m³

Step 25500/29999, Sim Time: 5017.563s (+1.314e-01s), Max Depth: 1.1196143443m, Max Vel: 9.9999999990m/s, Area: 371075.0m², Vol: 65236.0m³

Step 25600/29999, Sim Time: 5030.707s (+1.314e-01s), Max Depth: 1.1192522230m, Max Vel: 9.9999999990m/s, Area: 370725.0m², Vol: 65260.8m³

Step 25700/29999, Sim Time: 5043.852s (+1.315e-01s), Max Depth: 1.1182942949m, Max Vel: 9.9999999990m/s, Area: 370075.0m², Vol: 65284.0m³

Step 25800/29999, Sim Time: 5056.998s (+1.315e-01s), Max Depth: 1.1179627608m, Max Vel: 9.9999999990m/s, Area: 370350.0m², Vol: 65305.3m³

Step 25900/29999, Sim Time: 5070.144s (+1.315e-01s), Max Depth: 1.1181869005m, Max Vel: 9.9999999990m/s, Area: 370975.0m², Vol: 65325.1m³

Step 26000/29999, Sim Time: 5083.291s (+1.315e-01s), Max Depth: 1.1176276373m, Max Vel: 9.9999999990m/s, Area: 370375.0m², Vol: 65342.9m³

Step 26100/29999, Sim Time: 5096.438s (+1.315e-01s), Max Depth: 1.1168466910m, Max Vel: 9.9999999990m/s, Area: 370200.0m², Vol: 65359.8m³

Step 26200/29999, Sim Time: 5109.586s (+1.315e-01s), Max Depth: 1.1166944989m, Max Vel: 9.9999999990m/s, Area: 370500.0m², Vol: 65376.5m³

Step 26300/29999, Sim Time: 5122.734s (+1.315e-01s), Max Depth: 1.1167877952m, Max Vel: 9.9999999990m/s, Area: 370450.0m², Vol: 65392.9m³

Step 26400/29999, Sim Time: 5135.883s (+1.315e-01s), Max Depth: 1.1163216559m, Max Vel: 9.9999999990m/s, Area: 369750.0m², Vol: 65408.0m³

Step 26500/29999, Sim Time: 5149.032s (+1.315e-01s), Max Depth: 1.1154378042m, Max Vel: 9.9999999990m/s, Area: 369650.0m², Vol: 65421.2m³

Step 26600/29999, Sim Time: 5162.183s (+1.315e-01s), Max Depth: 1.1150406438m, Max Vel: 9.9999999990m/s, Area: 369450.0m², Vol: 65433.7m³

Step 26700/29999, Sim Time: 5175.333s (+1.315e-01s), Max Depth: 1.1153654285m, Max Vel: 9.9999999990m/s, Area: 368025.0m², Vol: 65446.3m³

Step 26800/29999, Sim Time: 5188.483s (+1.315e-01s), Max Depth: 1.1150318651m, Max Vel: 9.9999999990m/s, Area: 369000.0m², Vol: 65458.3m³

Step 26900/29999, Sim Time: 5201.634s (+1.315e-01s), Max Depth: 1.1143541017m, Max Vel: 9.9999999990m/s, Area: 369025.0m², Vol: 65469.4m³

Step 27000/29999, Sim Time: 5214.786s (+1.315e-01s), Max Depth: 1.1141354686m, Max Vel: 9.9999999990m/s, Area: 369075.0m², Vol: 65480.7m³

Step 27100/29999, Sim Time: 5227.938s (+1.315e-01s), Max Depth: 1.1143946448m, Max Vel: 9.9999999990m/s, Area: 369175.0m², Vol: 65491.9m³

Step 27200/29999, Sim Time: 5241.090s (+1.315e-01s), Max Depth: 1.1142891735m, Max Vel: 9.9999999990m/s, Area: 368650.0m², Vol: 65502.2m³

Step 27300/29999, Sim Time: 5254.242s (+1.315e-01s), Max Depth: 1.1137443526m, Max Vel: 9.9999999990m/s, Area: 368625.0m², Vol: 65513.4m³

Step 27400/29999, Sim Time: 5267.394s (+1.315e-01s), Max Depth: 1.1135142397m, Max Vel: 9.9999999990m/s, Area: 369075.0m², Vol: 65525.3m³

Step 27500/29999, Sim Time: 5280.547s (+1.315e-01s), Max Depth: 1.1137981188m, Max Vel: 9.9999999990m/s, Area: 368050.0m², Vol: 65536.1m³

Step 27600/29999, Sim Time: 5293.699s (+1.315e-01s), Max Depth: 1.1138581947m, Max Vel: 9.9999999990m/s, Area: 368575.0m², Vol: 65546.6m³

Step 27700/29999, Sim Time: 5306.852s (+1.315e-01s), Max Depth: 1.1133523531m, Max Vel: 9.9999999990m/s, Area: 368225.0m², Vol: 65556.9m³

Step 27800/29999, Sim Time: 5320.006s (+1.315e-01s), Max Depth: 1.1131451776m, Max Vel: 9.9999999990m/s, Area: 368650.0m², Vol: 65566.9m³

Step 27900/29999, Sim Time: 5333.159s (+1.315e-01s), Max Depth: 1.1132167212m, Max Vel: 9.9999999990m/s, Area: 368550.0m², Vol: 65577.2m³

Step 28000/29999, Sim Time: 5346.312s (+1.315e-01s), Max Depth: 1.1132241438m, Max Vel: 9.9999999990m/s, Area: 368675.0m², Vol: 65587.2m³

Step 28100/29999, Sim Time: 5359.466s (+1.315e-01s), Max Depth: 1.1129229340m, Max Vel: 9.9999999990m/s, Area: 369250.0m², Vol: 65597.0m³

Step 28200/29999, Sim Time: 5372.620s (+1.315e-01s), Max Depth: 1.1127297633m, Max Vel: 9.9999999990m/s, Area: 368475.0m², Vol: 65606.4m³

Step 28300/29999, Sim Time: 5385.774s (+1.315e-01s), Max Depth: 1.1126437338m, Max Vel: 9.9999999990m/s, Area: 368175.0m², Vol: 65616.4m³

Step 28400/29999, Sim Time: 5398.928s (+1.315e-01s), Max Depth: 1.1125507272m, Max Vel: 9.9999999999m/s, Area: 368750.0m², Vol: 65625.6m³

Step 28500/29999, Sim Time: 5412.082s (+1.315e-01s), Max Depth: 1.1124496227m, Max Vel: 9.9999999990m/s, Area: 367250.0m², Vol: 65636.2m³

Step 28600/29999, Sim Time: 5425.237s (+1.315e-01s), Max Depth: 1.1122185859m, Max Vel: 9.9999999990m/s, Area: 367025.0m², Vol: 65644.9m³

Step 28700/29999, Sim Time: 5438.392s (+1.315e-01s), Max Depth: 1.1122607758m, Max Vel: 9.9999999990m/s, Area: 367325.0m², Vol: 65654.3m³

Step 28800/29999, Sim Time: 5451.546s (+4.515e-01s), Max Depth: 1.1121366926m, Max Vel: 9.9999999990m/s, Area: 367325.0m², Vol: 65663.9m³

Step 28900/29999, Sim Time: 5499.748s (+3.509e-01s), Max Depth: 1.1119995600m, Max Vel: 9.9999999990m/s, Area: 366675.0m², Vol: 65673.3m³

Step 29000/29999, Sim Time: 5534.911s (+3.509e-01s), Max Depth: 1.1118976937m, Max Vel: 9.9999999990m/s, Area: 366675.0m², Vol: 65682.7m³

Step 29100/29999, Sim Time: 5570.024s (+3.509e-01s), Max Depth: 1.1119997962m, Max Vel: 9.9999999990m/s, Area: 366150.0m², Vol: 65690.8m³

Step 29200/29999, Sim Time: 5605.097s (+3.507e-01s), Max Depth: 1.1117977959m, Max Vel: 9.9999999990m/s, Area: 366525.0m², Vol: 65698.8m³

Step 29300/29999, Sim Time: 5640.104s (+3.506e-01s), Max Depth: 1.1116717034m, Max Vel: 9.9999999990m/s, Area: 366250.0m², Vol: 65706.5m³

Step 29400/29999, Sim Time: 5675.080s (+3.493e-01s), Max Depth: 1.1116960910m, Max Vel: 9.9999999990m/s, Area: 367275.0m², Vol: 65714.7m³

Step 29500/29999, Sim Time: 5709.990s (+3.489e-01s), Max Depth: 1.1118116093m, Max Vel: 9.9999999990m/s, Area: 366075.0m², Vol: 65723.9m³

Step 29600/29999, Sim Time: 5744.905s (+3.485e-01s), Max Depth: 1.1116436541m, Max Vel: 9.9999999990m/s, Area: 366050.0m², Vol: 65732.2m³

Step 29700/29999, Sim Time: 5779.837s (+3.493e-01s), Max Depth: 1.1113747305m, Max Vel: 9.9999999990m/s, Area: 367300.0m², Vol: 65740.0m³

Step 29800/29999, Sim Time: 5814.797s (+3.495e-01s), Max Depth: 1.1114536105m, Max Vel: 9.9999999990m/s, Area: 367625.0m², Vol: 65747.3m³

Step 29900/29999, Sim Time: 5849.781s (+3.502e-01s), Max Depth: 1.1115497420m, Max Vel: 9.9999999990m/s, Area: 366775.0m², Vol: 65753.8m³

Step 29999/29999, Sim Time: 5884.772s (+3.499e-01s), Max Depth: 1.1114998294m, Max Vel: 9.9999999990m/s, Area: 365875.0m², Vol: 65761.0m³

Simulation finished 30000 steps in 246.45 seconds (wall clock).

Final Maximum Flood Extent Area: 988575.00 m²

Peak Recorded Water Depth Anywhere: 1.130 m

Phase 2 max depth: 1.111 m, steady state max depth: 0.734 m, rate of increase: 0.000067 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain20.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain20.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---

python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 30 --output-freq 100 -o result\_rain30.mp4 --save --source-row 50 --source-col 1 --source-rate 1

--- Starting Two-Phase River + Rainfall Test (Combined Output, Custom Viz) ---

--- Running Phase 1 for Two-Phase Test: Establishing River Flow ---

Generating DEM for Phase 1...

Generating natural river DEM...

Adding terrain noise...

Applying final smoothing...

Natural river DEM created.

Final DEM Elevation range: 20.00 to 25.10

Initializing Phase 1 sim with outlet\_percentile=5.0.

Generated boundary mask: 946 wall cells, 50 potential outlet cells identified.

Initial dt guess: 0.0707 s

--- Running Phase 1 Simulation for 20000 steps ---

Step 0/19999, Sim Time: 0.106s (+1.060e-01s), Max Depth: 0.2119873110m, Max Vel: 0.0000000000m/s, Area: 25.0m², Vol: 5.3m³

Step 100/19999, Sim Time: 64.077s (+8.004e-01s), Max Depth: 0.2597141130m, Max Vel: 0.5811788908m/s, Area: 1000.0m², Vol: 98.4m³

Step 200/19999, Sim Time: 159.673s (+1.053e+00s), Max Depth: 0.1709328576m, Max Vel: 0.3652084574m/s, Area: 2125.0m², Vol: 184.4m³

Step 300/19999, Sim Time: 265.860s (+1.074e+00s), Max Depth: 0.1746705831m, Max Vel: 0.3257429471m/s, Area: 3400.0m², Vol: 282.5m³

Step 400/19999, Sim Time: 371.997s (+1.045e+00s), Max Depth: 0.1802231625m, Max Vel: 0.3405344994m/s, Area: 4350.0m², Vol: 385.8m³

Step 500/19999, Sim Time: 476.782s (+1.036e+00s), Max Depth: 0.1910812156m, Max Vel: 0.3217763543m/s, Area: 5475.0m², Vol: 503.2m³

Step 600/19999, Sim Time: 577.607s (+9.871e-01s), Max Depth: 0.2067413589m, Max Vel: 0.3492858854m/s, Area: 6300.0m², Vol: 632.8m³

Step 700/19999, Sim Time: 675.052s (+9.654e-01s), Max Depth: 0.2147943389m, Max Vel: 0.3612527269m/s, Area: 7325.0m², Vol: 758.3m³

Step 800/19999, Sim Time: 771.326s (+9.615e-01s), Max Depth: 0.2176690977m, Max Vel: 0.3587653168m/s, Area: 8300.0m², Vol: 884.5m³

Step 900/19999, Sim Time: 867.603s (+9.642e-01s), Max Depth: 0.2181425161m, Max Vel: 0.3520372652m/s, Area: 9200.0m², Vol: 1016.0m³

Step 1000/19999, Sim Time: 964.176s (+9.659e-01s), Max Depth: 0.2176355701m, Max Vel: 0.3505775108m/s, Area: 10325.0m², Vol: 1153.0m³

Step 1100/19999, Sim Time: 1060.760s (+9.534e-01s), Max Depth: 0.2170977179m, Max Vel: 0.3743132384m/s, Area: 11450.0m², Vol: 1293.3m³

Step 1200/19999, Sim Time: 1155.204s (+9.348e-01s), Max Depth: 0.2205068273m, Max Vel: 0.4013918960m/s, Area: 12600.0m², Vol: 1433.2m³

Step 1300/19999, Sim Time: 1247.890s (+9.224e-01s), Max Depth: 0.2237983278m, Max Vel: 0.4154804665m/s, Area: 13400.0m², Vol: 1569.5m³

Step 1400/19999, Sim Time: 1340.616s (+9.318e-01s), Max Depth: 0.2253471230m, Max Vel: 0.3911293275m/s, Area: 14225.0m², Vol: 1693.7m³

Step 1500/19999, Sim Time: 1433.827s (+9.183e-01s), Max Depth: 0.2347150831m, Max Vel: 0.3884551856m/s, Area: 15250.0m², Vol: 1801.0m³

Step 1600/19999, Sim Time: 1523.734s (+8.835e-01s), Max Depth: 0.2484727293m, Max Vel: 0.4196037220m/s, Area: 16175.0m², Vol: 1913.9m³

Step 1700/19999, Sim Time: 1611.492s (+8.739e-01s), Max Depth: 0.2579902478m, Max Vel: 0.4117215248m/s, Area: 17025.0m², Vol: 2030.2m³

Step 1800/19999, Sim Time: 1699.144s (+8.802e-01s), Max Depth: 0.2643400677m, Max Vel: 0.3777967802m/s, Area: 17875.0m², Vol: 2158.0m³

Step 1900/19999, Sim Time: 1787.242s (+8.822e-01s), Max Depth: 0.2690956176m, Max Vel: 0.3589942641m/s, Area: 19100.0m², Vol: 2296.5m³

Step 2000/19999, Sim Time: 1874.338s (+8.635e-01s), Max Depth: 0.2722201745m, Max Vel: 0.3918456945m/s, Area: 20225.0m², Vol: 2450.6m³

Step 2100/19999, Sim Time: 1960.628s (+8.519e-01s), Max Depth: 0.2739780451m, Max Vel: 0.4081844441m/s, Area: 21400.0m², Vol: 2611.6m³

Step 2200/19999, Sim Time: 2046.386s (+8.584e-01s), Max Depth: 0.2747129155m, Max Vel: 0.3967688765m/s, Area: 22400.0m², Vol: 2782.2m³

Step 2300/19999, Sim Time: 2130.901s (+8.386e-01s), Max Depth: 0.2746797423m, Max Vel: 0.4456647926m/s, Area: 23625.0m², Vol: 2953.2m³

Step 2400/19999, Sim Time: 2214.559s (+8.392e-01s), Max Depth: 0.2742090230m, Max Vel: 0.4445373182m/s, Area: 24725.0m², Vol: 3134.0m³

Step 2500/19999, Sim Time: 2299.498s (+8.568e-01s), Max Depth: 0.2734828131m, Max Vel: 0.4055632075m/s, Area: 25850.0m², Vol: 3334.5m³

Step 2600/19999, Sim Time: 2384.716s (+8.467e-01s), Max Depth: 0.2803962605m, Max Vel: 0.4087375125m/s, Area: 26950.0m², Vol: 3549.7m³

Step 2700/19999, Sim Time: 2467.599s (+8.096e-01s), Max Depth: 0.3025797149m, Max Vel: 0.4338134501m/s, Area: 28250.0m², Vol: 3770.7m³

Step 2800/19999, Sim Time: 2547.529s (+7.892e-01s), Max Depth: 0.3196907096m, Max Vel: 0.4469806603m/s, Area: 29650.0m², Vol: 3999.5m³

Step 2900/19999, Sim Time: 2625.768s (+7.788e-01s), Max Depth: 0.3303555327m, Max Vel: 0.4471332848m/s, Area: 30900.0m², Vol: 4236.5m³

Step 3000/19999, Sim Time: 2703.264s (+7.721e-01s), Max Depth: 0.3374031308m, Max Vel: 0.4474247706m/s, Area: 32125.0m², Vol: 4481.0m³

Step 3100/19999, Sim Time: 2780.317s (+7.693e-01s), Max Depth: 0.3426772065m, Max Vel: 0.4412521887m/s, Area: 33325.0m², Vol: 4735.2m³

Step 3200/19999, Sim Time: 2857.211s (+7.687e-01s), Max Depth: 0.3476379938m, Max Vel: 0.4299422227m/s, Area: 34725.0m², Vol: 5001.1m³

Step 3300/19999, Sim Time: 2932.884s (+7.467e-01s), Max Depth: 0.3521020336m, Max Vel: 0.4775318323m/s, Area: 36075.0m², Vol: 5272.9m³

Step 3400/19999, Sim Time: 3007.487s (+7.434e-01s), Max Depth: 0.3561837772m, Max Vel: 0.4850125648m/s, Area: 37350.0m², Vol: 5545.0m³

Step 3500/19999, Sim Time: 3081.558s (+7.399e-01s), Max Depth: 0.3600001855m, Max Vel: 0.4861972900m/s, Area: 38650.0m², Vol: 5827.8m³

Step 3600/19999, Sim Time: 3155.377s (+7.378e-01s), Max Depth: 0.3635513893m, Max Vel: 0.4833212994m/s, Area: 40225.0m², Vol: 6125.6m³

Step 3700/19999, Sim Time: 3229.234s (+7.387e-01s), Max Depth: 0.3665146094m, Max Vel: 0.4731704642m/s, Area: 41750.0m², Vol: 6431.2m³

Step 3800/19999, Sim Time: 3302.852s (+7.364e-01s), Max Depth: 0.3693271297m, Max Vel: 0.4728303405m/s, Area: 43200.0m², Vol: 6751.0m³

Step 3900/19999, Sim Time: 3375.903s (+7.302e-01s), Max Depth: 0.3718540870m, Max Vel: 0.4859574129m/s, Area: 44750.0m², Vol: 7083.8m³

Step 4000/19999, Sim Time: 3448.560s (+7.249e-01s), Max Depth: 0.3741861528m, Max Vel: 0.4981654944m/s, Area: 45900.0m², Vol: 7436.1m³

Step 4100/19999, Sim Time: 3520.903s (+7.236e-01s), Max Depth: 0.3763862877m, Max Vel: 0.4966960726m/s, Area: 47400.0m², Vol: 7794.2m³

Step 4200/19999, Sim Time: 3593.477s (+7.277e-01s), Max Depth: 0.3782970041m, Max Vel: 0.4783880939m/s, Area: 49000.0m², Vol: 8150.7m³

Step 4300/19999, Sim Time: 3665.900s (+7.187e-01s), Max Depth: 0.3798678096m, Max Vel: 0.5066486707m/s, Area: 50750.0m², Vol: 8515.8m³

Step 4400/19999, Sim Time: 3737.276s (+7.073e-01s), Max Depth: 0.3813345759m, Max Vel: 0.5404832194m/s, Area: 52300.0m², Vol: 8902.0m³

Step 4500/19999, Sim Time: 3807.842s (+7.058e-01s), Max Depth: 0.3824214128m, Max Vel: 0.5426442349m/s, Area: 53975.0m², Vol: 9292.8m³

Step 4600/19999, Sim Time: 3878.532s (+7.076e-01s), Max Depth: 0.3893015703m, Max Vel: 0.5188344673m/s, Area: 55750.0m², Vol: 9697.3m³

Step 4700/19999, Sim Time: 3949.146s (+7.045e-01s), Max Depth: 0.3978554687m, Max Vel: 0.5085271656m/s, Area: 57350.0m², Vol: 10116.9m³

Step 4800/19999, Sim Time: 4019.540s (+7.038e-01s), Max Depth: 0.4044508854m, Max Vel: 0.4947424301m/s, Area: 58950.0m², Vol: 10554.4m³

Step 4900/19999, Sim Time: 4089.546s (+6.990e-01s), Max Depth: 0.4106421722m, Max Vel: 0.4970008611m/s, Area: 60700.0m², Vol: 11000.0m³

Step 5000/19999, Sim Time: 4159.270s (+6.951e-01s), Max Depth: 0.4160452922m, Max Vel: 0.4974216634m/s, Area: 62550.0m², Vol: 11467.5m³

Step 5100/19999, Sim Time: 4228.601s (+6.919e-01s), Max Depth: 0.4206952011m, Max Vel: 0.4977205523m/s, Area: 64350.0m², Vol: 11949.5m³

Step 5200/19999, Sim Time: 4297.135s (+6.876e-01s), Max Depth: 0.4267157234m, Max Vel: 0.4998158026m/s, Area: 66000.0m², Vol: 12444.2m³

Step 5300/19999, Sim Time: 4365.713s (+6.794e-01s), Max Depth: 0.4324782006m, Max Vel: 0.5190165950m/s, Area: 67725.0m², Vol: 12955.2m³

Step 5400/19999, Sim Time: 4432.758s (+6.656e-01s), Max Depth: 0.4381236842m, Max Vel: 0.5560909131m/s, Area: 69800.0m², Vol: 13478.6m³

Step 5500/19999, Sim Time: 4498.733s (+6.523e-01s), Max Depth: 0.4433199597m, Max Vel: 0.6022011021m/s, Area: 71675.0m², Vol: 14017.7m³

Step 5600/19999, Sim Time: 4564.212s (+6.532e-01s), Max Depth: 0.4481104117m, Max Vel: 0.5825409977m/s, Area: 73375.0m², Vol: 14575.5m³

Step 5700/19999, Sim Time: 4629.313s (+6.493e-01s), Max Depth: 0.4524609463m, Max Vel: 0.5884059917m/s, Area: 75175.0m², Vol: 15147.7m³

Step 5800/19999, Sim Time: 4694.179s (+6.486e-01s), Max Depth: 0.4563034724m, Max Vel: 0.5822972571m/s, Area: 77000.0m², Vol: 15736.3m³

Step 5900/19999, Sim Time: 4759.062s (+6.490e-01s), Max Depth: 0.4595093476m, Max Vel: 0.5731548352m/s, Area: 78900.0m², Vol: 16331.5m³

Step 6000/19999, Sim Time: 4823.919s (+6.496e-01s), Max Depth: 0.4619809653m, Max Vel: 0.5650150445m/s, Area: 80650.0m², Vol: 16942.3m³

Step 6100/19999, Sim Time: 4888.720s (+6.429e-01s), Max Depth: 0.4648876959m, Max Vel: 0.5856460079m/s, Area: 82700.0m², Vol: 17559.0m³

Step 6200/19999, Sim Time: 4952.958s (+6.396e-01s), Max Depth: 0.4683343738m, Max Vel: 0.5929344853m/s, Area: 84950.0m², Vol: 18185.0m³

Step 6300/19999, Sim Time: 5016.729s (+6.365e-01s), Max Depth: 0.4713652242m, Max Vel: 0.5989401184m/s, Area: 86775.0m², Vol: 18813.1m³

Step 6400/19999, Sim Time: 5080.315s (+6.354e-01s), Max Depth: 0.4751863376m, Max Vel: 0.5950777108m/s, Area: 88900.0m², Vol: 19457.7m³

Step 6500/19999, Sim Time: 5143.717s (+6.329e-01s), Max Depth: 0.4865308793m, Max Vel: 0.5804781739m/s, Area: 91050.0m², Vol: 20111.0m³

Step 6600/19999, Sim Time: 5206.778s (+6.326e-01s), Max Depth: 0.4962743434m, Max Vel: 0.5597698310m/s, Area: 93225.0m², Vol: 20784.0m³

Step 6700/19999, Sim Time: 5269.686s (+6.267e-01s), Max Depth: 0.5047020836m, Max Vel: 0.5673149015m/s, Area: 95275.0m², Vol: 21479.1m³

Step 6800/19999, Sim Time: 5331.599s (+6.117e-01s), Max Depth: 0.5116486714m, Max Vel: 0.6233042419m/s, Area: 97550.0m², Vol: 22169.1m³

Step 6900/19999, Sim Time: 5392.148s (+6.001e-01s), Max Depth: 0.5181144139m, Max Vel: 0.6620492694m/s, Area: 99800.0m², Vol: 22858.0m³

Step 7000/19999, Sim Time: 5452.051s (+5.986e-01s), Max Depth: 0.5241570280m, Max Vel: 0.6561762728m/s, Area: 102000.0m², Vol: 23551.2m³

Step 7100/19999, Sim Time: 5511.861s (+5.981e-01s), Max Depth: 0.5297107344m, Max Vel: 0.6464530952m/s, Area: 103975.0m², Vol: 24262.0m³

Step 7200/19999, Sim Time: 5571.504s (+5.954e-01s), Max Depth: 0.5348100614m, Max Vel: 0.6481609293m/s, Area: 106200.0m², Vol: 24979.0m³

Step 7300/19999, Sim Time: 5630.938s (+5.934e-01s), Max Depth: 0.5393639514m, Max Vel: 0.6489496753m/s, Area: 108300.0m², Vol: 25715.6m³

Step 7400/19999, Sim Time: 5690.219s (+5.943e-01s), Max Depth: 0.5434049017m, Max Vel: 0.6354882081m/s, Area: 110375.0m², Vol: 26465.4m³

Step 7500/19999, Sim Time: 5749.745s (+5.954e-01s), Max Depth: 0.5469867616m, Max Vel: 0.6226245404m/s, Area: 112500.0m², Vol: 27246.9m³

Step 7600/19999, Sim Time: 5808.996s (+5.843e-01s), Max Depth: 0.5502212615m, Max Vel: 0.6778589039m/s, Area: 114750.0m², Vol: 28046.6m³

Step 7700/19999, Sim Time: 5867.230s (+5.825e-01s), Max Depth: 0.5529904963m, Max Vel: 0.6753573500m/s, Area: 116750.0m², Vol: 28857.5m³

Step 7800/19999, Sim Time: 5925.357s (+5.823e-01s), Max Depth: 0.5553596599m, Max Vel: 0.6707206066m/s, Area: 119125.0m², Vol: 29666.4m³

Step 7900/19999, Sim Time: 5983.772s (+5.853e-01s), Max Depth: 0.5574920350m, Max Vel: 0.6513363627m/s, Area: 120975.0m², Vol: 30438.3m³

Step 8000/19999, Sim Time: 6042.334s (+5.857e-01s), Max Depth: 0.5594957976m, Max Vel: 0.6452232986m/s, Area: 122075.0m², Vol: 31064.7m³

Step 8100/19999, Sim Time: 6100.935s (+5.864e-01s), Max Depth: 0.5614594540m, Max Vel: 0.6374797347m/s, Area: 123125.0m², Vol: 31610.6m³

Step 8200/19999, Sim Time: 6159.573s (+5.865e-01s), Max Depth: 0.5634061275m, Max Vel: 0.6329828800m/s, Area: 123700.0m², Vol: 32113.2m³

Step 8300/19999, Sim Time: 6218.243s (+5.874e-01s), Max Depth: 0.5653177623m, Max Vel: 0.6243576772m/s, Area: 124275.0m², Vol: 32573.4m³

Step 8400/19999, Sim Time: 6277.057s (+5.888e-01s), Max Depth: 0.5670875164m, Max Vel: 0.6134688465m/s, Area: 124950.0m², Vol: 32999.9m³

Step 8500/19999, Sim Time: 6335.984s (+5.898e-01s), Max Depth: 0.5687954134m, Max Vel: 0.6050292658m/s, Area: 125350.0m², Vol: 33424.8m³

Step 8600/19999, Sim Time: 6395.065s (+5.924e-01s), Max Depth: 0.5703726312m, Max Vel: 0.5881687326m/s, Area: 125825.0m², Vol: 33859.8m³

Step 8700/19999, Sim Time: 6454.320s (+5.910e-01s), Max Depth: 0.5813931895m, Max Vel: 0.5731015812m/s, Area: 126175.0m², Vol: 34258.3m³

Step 8800/19999, Sim Time: 6513.215s (+5.871e-01s), Max Depth: 0.5925583594m, Max Vel: 0.5697403946m/s, Area: 126450.0m², Vol: 34638.4m³

Step 8900/19999, Sim Time: 6571.754s (+5.833e-01s), Max Depth: 0.6033154601m, Max Vel: 0.5674959745m/s, Area: 126750.0m², Vol: 34981.7m³

Step 9000/19999, Sim Time: 6629.847s (+5.785e-01s), Max Depth: 0.6135231937m, Max Vel: 0.5719768359m/s, Area: 127000.0m², Vol: 35289.3m³

Step 9100/19999, Sim Time: 6687.509s (+5.752e-01s), Max Depth: 0.6218374399m, Max Vel: 0.5729111827m/s, Area: 127350.0m², Vol: 35593.2m³

Step 9200/19999, Sim Time: 6744.996s (+5.756e-01s), Max Depth: 0.6291041631m, Max Vel: 0.5559102549m/s, Area: 127650.0m², Vol: 35940.0m³

Step 9300/19999, Sim Time: 6802.673s (+5.760e-01s), Max Depth: 0.6376405189m, Max Vel: 0.5371936168m/s, Area: 127875.0m², Vol: 36285.8m³

Step 9400/19999, Sim Time: 6860.047s (+5.713e-01s), Max Depth: 0.6510311983m, Max Vel: 0.5361946251m/s, Area: 128350.0m², Vol: 36590.3m³

Step 9500/19999, Sim Time: 6916.737s (+5.624e-01s), Max Depth: 0.6765902375m, Max Vel: 0.5357134469m/s, Area: 128825.0m², Vol: 36894.7m³

Step 9600/19999, Sim Time: 6972.690s (+5.573e-01s), Max Depth: 0.6918089534m, Max Vel: 0.5350289180m/s, Area: 129050.0m², Vol: 37175.5m³

Step 9700/19999, Sim Time: 7028.274s (+5.543e-01s), Max Depth: 0.7014509382m, Max Vel: 0.5338974841m/s, Area: 129200.0m², Vol: 37419.8m³

Step 9800/19999, Sim Time: 7083.559s (+5.516e-01s), Max Depth: 0.7105199338m, Max Vel: 0.5326518925m/s, Area: 129425.0m², Vol: 37645.0m³

Step 9900/19999, Sim Time: 7138.638s (+5.503e-01s), Max Depth: 0.7152159302m, Max Vel: 0.5315190688m/s, Area: 129650.0m², Vol: 37845.8m³

Step 10000/19999, Sim Time: 7193.646s (+5.500e-01s), Max Depth: 0.7167995083m, Max Vel: 0.5300101690m/s, Area: 129775.0m², Vol: 38013.4m³

Step 10100/19999, Sim Time: 7248.589s (+5.485e-01s), Max Depth: 0.7165896109m, Max Vel: 0.5392740960m/s, Area: 129800.0m², Vol: 38149.9m³

Step 10200/19999, Sim Time: 7303.355s (+5.469e-01s), Max Depth: 0.7160152500m, Max Vel: 0.5494001844m/s, Area: 129850.0m², Vol: 38262.0m³

Step 10300/19999, Sim Time: 7357.993s (+5.459e-01s), Max Depth: 0.7157701821m, Max Vel: 0.5561096687m/s, Area: 129950.0m², Vol: 38358.7m³

Step 10400/19999, Sim Time: 7412.538s (+5.451e-01s), Max Depth: 0.7157616758m, Max Vel: 0.5606516900m/s, Area: 129975.0m², Vol: 38443.3m³

Step 10500/19999, Sim Time: 7467.019s (+5.446e-01s), Max Depth: 0.7158696895m, Max Vel: 0.5635703188m/s, Area: 130100.0m², Vol: 38517.7m³

Step 10600/19999, Sim Time: 7521.455s (+5.442e-01s), Max Depth: 0.7160692554m, Max Vel: 0.5652445171m/s, Area: 130100.0m², Vol: 38584.7m³

Step 10700/19999, Sim Time: 7575.867s (+5.440e-01s), Max Depth: 0.7163924546m, Max Vel: 0.5656846076m/s, Area: 130150.0m², Vol: 38645.6m³

Step 10800/19999, Sim Time: 7630.268s (+5.440e-01s), Max Depth: 0.7168377914m, Max Vel: 0.5650162014m/s, Area: 130200.0m², Vol: 38702.4m³

Step 10900/19999, Sim Time: 7684.673s (+5.441e-01s), Max Depth: 0.7174574735m, Max Vel: 0.5632862144m/s, Area: 130225.0m², Vol: 38756.7m³

Step 11000/19999, Sim Time: 7739.096s (+5.444e-01s), Max Depth: 0.7181769325m, Max Vel: 0.5604469272m/s, Area: 130250.0m², Vol: 38809.6m³

Step 11100/19999, Sim Time: 7793.553s (+5.448e-01s), Max Depth: 0.7191055965m, Max Vel: 0.5560240283m/s, Area: 130300.0m², Vol: 38863.8m³

Step 11200/19999, Sim Time: 7848.071s (+5.456e-01s), Max Depth: 0.7201351717m, Max Vel: 0.5494945987m/s, Area: 130375.0m², Vol: 38921.7m³

Step 11300/19999, Sim Time: 7902.666s (+5.462e-01s), Max Depth: 0.7211973526m, Max Vel: 0.5439293823m/s, Area: 130425.0m², Vol: 38985.4m³

Step 11400/19999, Sim Time: 7957.329s (+5.472e-01s), Max Depth: 0.7222314060m, Max Vel: 0.5363814328m/s, Area: 130550.0m², Vol: 39063.0m³

Step 11500/19999, Sim Time: 8012.131s (+5.487e-01s), Max Depth: 0.7236280493m, Max Vel: 0.5251999512m/s, Area: 130600.0m², Vol: 39166.2m³

Step 11600/19999, Sim Time: 8066.977s (+5.476e-01s), Max Depth: 0.7272399828m, Max Vel: 0.5251827955m/s, Area: 130650.0m², Vol: 39274.9m³

Step 11700/19999, Sim Time: 8121.642s (+5.460e-01s), Max Depth: 0.7320576338m, Max Vel: 0.5251355899m/s, Area: 130700.0m², Vol: 39364.6m³

Step 11800/19999, Sim Time: 8176.233s (+5.460e-01s), Max Depth: 0.7321931047m, Max Vel: 0.5249906110m/s, Area: 130750.0m², Vol: 39434.6m³

Step 11900/19999, Sim Time: 8230.848s (+5.463e-01s), Max Depth: 0.7313994803m, Max Vel: 0.5246367081m/s, Area: 130825.0m², Vol: 39485.6m³

Step 12000/19999, Sim Time: 8285.497s (+5.466e-01s), Max Depth: 0.7306647416m, Max Vel: 0.5240507296m/s, Area: 130925.0m², Vol: 39524.5m³

Step 12100/19999, Sim Time: 8340.176s (+5.469e-01s), Max Depth: 0.7302184282m, Max Vel: 0.5234847713m/s, Area: 130950.0m², Vol: 39556.8m³

Step 12200/19999, Sim Time: 8394.866s (+5.469e-01s), Max Depth: 0.7304259419m, Max Vel: 0.5230622435m/s, Area: 130950.0m², Vol: 39585.5m³

Step 12300/19999, Sim Time: 8449.551s (+5.468e-01s), Max Depth: 0.7308103340m, Max Vel: 0.5229182518m/s, Area: 131050.0m², Vol: 39611.8m³

Step 12400/19999, Sim Time: 8504.226s (+5.467e-01s), Max Depth: 0.7310268231m, Max Vel: 0.5229530757m/s, Area: 131125.0m², Vol: 39636.5m³

Step 12500/19999, Sim Time: 8558.893s (+5.466e-01s), Max Depth: 0.7312660134m, Max Vel: 0.5231176506m/s, Area: 131175.0m², Vol: 39659.0m³

Step 12600/19999, Sim Time: 8613.550s (+5.465e-01s), Max Depth: 0.7315205268m, Max Vel: 0.5232323074m/s, Area: 131175.0m², Vol: 39679.7m³

Step 12700/19999, Sim Time: 8668.197s (+5.464e-01s), Max Depth: 0.7317729094m, Max Vel: 0.5233448534m/s, Area: 131175.0m², Vol: 39698.6m³

Step 12800/19999, Sim Time: 8722.835s (+5.463e-01s), Max Depth: 0.7320082659m, Max Vel: 0.5234308020m/s, Area: 131150.0m², Vol: 39716.1m³

Step 12900/19999, Sim Time: 8777.462s (+5.462e-01s), Max Depth: 0.7322162320m, Max Vel: 0.5237447849m/s, Area: 131125.0m², Vol: 39732.1m³

Step 13000/19999, Sim Time: 8832.079s (+5.461e-01s), Max Depth: 0.7323954093m, Max Vel: 0.5240504101m/s, Area: 131125.0m², Vol: 39746.9m³

Step 13100/19999, Sim Time: 8886.684s (+5.460e-01s), Max Depth: 0.7325720907m, Max Vel: 0.5243799290m/s, Area: 131175.0m², Vol: 39760.6m³

Step 13200/19999, Sim Time: 8941.278s (+5.459e-01s), Max Depth: 0.7327589228m, Max Vel: 0.5246634547m/s, Area: 131125.0m², Vol: 39773.1m³

Step 13300/19999, Sim Time: 8995.862s (+5.458e-01s), Max Depth: 0.7329468822m, Max Vel: 0.5249176701m/s, Area: 131150.0m², Vol: 39784.5m³

Step 13400/19999, Sim Time: 9050.436s (+5.457e-01s), Max Depth: 0.7331386463m, Max Vel: 0.5251409320m/s, Area: 131150.0m², Vol: 39795.0m³

Step 13500/19999, Sim Time: 9105.000s (+5.456e-01s), Max Depth: 0.7333288963m, Max Vel: 0.5253601018m/s, Area: 131175.0m², Vol: 39804.6m³

Step 13600/19999, Sim Time: 9159.555s (+5.455e-01s), Max Depth: 0.7335145720m, Max Vel: 0.5255363454m/s, Area: 131225.0m², Vol: 39813.4m³

Step 13700/19999, Sim Time: 9214.102s (+5.454e-01s), Max Depth: 0.7336908140m, Max Vel: 0.5257006147m/s, Area: 131225.0m², Vol: 39821.5m³

Step 13800/19999, Sim Time: 9268.640s (+5.453e-01s), Max Depth: 0.7338570261m, Max Vel: 0.5258458728m/s, Area: 131225.0m², Vol: 39828.8m³

Step 13900/19999, Sim Time: 9323.171s (+5.453e-01s), Max Depth: 0.7340109054m, Max Vel: 0.5259789036m/s, Area: 131250.0m², Vol: 39835.5m³

Step 14000/19999, Sim Time: 9377.696s (+5.452e-01s), Max Depth: 0.7341511111m, Max Vel: 0.5261046720m/s, Area: 131225.0m², Vol: 39841.5m³

Step 14100/19999, Sim Time: 9432.214s (+5.452e-01s), Max Depth: 0.7342763134m, Max Vel: 0.5262251210m/s, Area: 131225.0m², Vol: 39846.7m³

Step 14200/19999, Sim Time: 9486.726s (+5.451e-01s), Max Depth: 0.7343860500m, Max Vel: 0.5263412973m/s, Area: 131200.0m², Vol: 39851.0m³

Step 14300/19999, Sim Time: 9541.234s (+5.451e-01s), Max Depth: 0.7344799753m, Max Vel: 0.5264537784m/s, Area: 131200.0m², Vol: 39854.6m³

Step 14400/19999, Sim Time: 9595.737s (+5.450e-01s), Max Depth: 0.7345582412m, Max Vel: 0.5265645786m/s, Area: 131175.0m², Vol: 39857.5m³

Step 14500/19999, Sim Time: 9650.235s (+5.450e-01s), Max Depth: 0.7346208019m, Max Vel: 0.5266720585m/s, Area: 131250.0m², Vol: 39860.0m³

Step 14600/19999, Sim Time: 9704.731s (+5.449e-01s), Max Depth: 0.7346676399m, Max Vel: 0.5267751614m/s, Area: 131250.0m², Vol: 39862.0m³

Step 14700/19999, Sim Time: 9759.223s (+5.449e-01s), Max Depth: 0.7346991609m, Max Vel: 0.5268738362m/s, Area: 131225.0m², Vol: 39863.2m³

Step 14800/19999, Sim Time: 9813.713s (+5.449e-01s), Max Depth: 0.7347153894m, Max Vel: 0.5269701007m/s, Area: 131225.0m², Vol: 39863.6m³

Step 14900/19999, Sim Time: 9868.201s (+5.449e-01s), Max Depth: 0.7347170440m, Max Vel: 0.5270681306m/s, Area: 131200.0m², Vol: 39863.2m³

Step 15000/19999, Sim Time: 9922.688s (+5.449e-01s), Max Depth: 0.7347047102m, Max Vel: 0.5271641974m/s, Area: 131200.0m², Vol: 39862.0m³

Step 15100/19999, Sim Time: 9977.173s (+5.449e-01s), Max Depth: 0.7346792162m, Max Vel: 0.5272572373m/s, Area: 131175.0m², Vol: 39860.2m³

Step 15200/19999, Sim Time: 10031.658s (+5.448e-01s), Max Depth: 0.7346413349m, Max Vel: 0.5273456727m/s, Area: 131150.0m², Vol: 39857.6m³

Step 15300/19999, Sim Time: 10086.143s (+5.449e-01s), Max Depth: 0.7345920370m, Max Vel: 0.5274276848m/s, Area: 131150.0m², Vol: 39854.2m³

Step 15400/19999, Sim Time: 10140.628s (+5.448e-01s), Max Depth: 0.7345334755m, Max Vel: 0.5275401809m/s, Area: 131150.0m², Vol: 39850.2m³

Step 15500/19999, Sim Time: 10195.114s (+5.449e-01s), Max Depth: 0.7344650468m, Max Vel: 0.5276077084m/s, Area: 131075.0m², Vol: 39845.5m³

Step 15600/19999, Sim Time: 10249.600s (+5.449e-01s), Max Depth: 0.7343923135m, Max Vel: 0.5276914948m/s, Area: 131075.0m², Vol: 39839.8m³

Step 15700/19999, Sim Time: 10304.088s (+5.449e-01s), Max Depth: 0.7343114964m, Max Vel: 0.5277534893m/s, Area: 131075.0m², Vol: 39833.6m³

Step 15800/19999, Sim Time: 10358.577s (+5.449e-01s), Max Depth: 0.7342258320m, Max Vel: 0.5278107110m/s, Area: 131075.0m², Vol: 39827.2m³

Step 15900/19999, Sim Time: 10413.067s (+5.449e-01s), Max Depth: 0.7341380417m, Max Vel: 0.5278550987m/s, Area: 131075.0m², Vol: 39820.5m³

Step 16000/19999, Sim Time: 10467.560s (+5.449e-01s), Max Depth: 0.7340493547m, Max Vel: 0.5278911984m/s, Area: 131025.0m², Vol: 39813.5m³

Step 16100/19999, Sim Time: 10522.056s (+5.450e-01s), Max Depth: 0.7339598700m, Max Vel: 0.5278831623m/s, Area: 131050.0m², Vol: 39806.4m³

Step 16200/19999, Sim Time: 10576.554s (+5.450e-01s), Max Depth: 0.7338709110m, Max Vel: 0.5279038295m/s, Area: 131025.0m², Vol: 39799.3m³

Step 16300/19999, Sim Time: 10631.054s (+5.450e-01s), Max Depth: 0.7337824824m, Max Vel: 0.5278886818m/s, Area: 131025.0m², Vol: 39792.3m³

Step 16400/19999, Sim Time: 10685.558s (+5.450e-01s), Max Depth: 0.7336999146m, Max Vel: 0.5278804745m/s, Area: 131025.0m², Vol: 39785.4m³

Step 16500/19999, Sim Time: 10740.065s (+5.451e-01s), Max Depth: 0.7336200841m, Max Vel: 0.5278609444m/s, Area: 131000.0m², Vol: 39778.5m³

Step 16600/19999, Sim Time: 10794.574s (+5.451e-01s), Max Depth: 0.7335439567m, Max Vel: 0.5278361613m/s, Area: 131000.0m², Vol: 39771.8m³

Step 16700/19999, Sim Time: 10849.086s (+5.451e-01s), Max Depth: 0.7334721459m, Max Vel: 0.5278032690m/s, Area: 130975.0m², Vol: 39765.2m³

Step 16800/19999, Sim Time: 10903.600s (+5.452e-01s), Max Depth: 0.7334056741m, Max Vel: 0.5277629852m/s, Area: 130925.0m², Vol: 39758.5m³

Step 16900/19999, Sim Time: 10958.118s (+5.452e-01s), Max Depth: 0.7333445111m, Max Vel: 0.5277161132m/s, Area: 130900.0m², Vol: 39752.0m³

Step 17000/19999, Sim Time: 11012.638s (+5.452e-01s), Max Depth: 0.7332885087m, Max Vel: 0.5276640350m/s, Area: 130900.0m², Vol: 39745.6m³

Step 17100/19999, Sim Time: 11067.161s (+5.452e-01s), Max Depth: 0.7332381278m, Max Vel: 0.5276075713m/s, Area: 130875.0m², Vol: 39739.5m³

Step 17200/19999, Sim Time: 11121.686s (+5.453e-01s), Max Depth: 0.7331935315m, Max Vel: 0.5275467166m/s, Area: 130875.0m², Vol: 39733.7m³

Step 17300/19999, Sim Time: 11176.214s (+5.453e-01s), Max Depth: 0.7331547366m, Max Vel: 0.5274823492m/s, Area: 130850.0m², Vol: 39728.0m³

Step 17400/19999, Sim Time: 11230.743s (+5.453e-01s), Max Depth: 0.7331216959m, Max Vel: 0.5274136917m/s, Area: 130850.0m², Vol: 39722.6m³

Step 17500/19999, Sim Time: 11285.275s (+5.453e-01s), Max Depth: 0.7330944685m, Max Vel: 0.5273436834m/s, Area: 130825.0m², Vol: 39717.6m³

Step 17600/19999, Sim Time: 11339.809s (+5.453e-01s), Max Depth: 0.7330732153m, Max Vel: 0.5272724118m/s, Area: 130825.0m², Vol: 39713.1m³

Step 17700/19999, Sim Time: 11394.345s (+5.454e-01s), Max Depth: 0.7330579789m, Max Vel: 0.5272009707m/s, Area: 130825.0m², Vol: 39709.2m³

Step 17800/19999, Sim Time: 11448.882s (+5.454e-01s), Max Depth: 0.7330487354m, Max Vel: 0.5271298444m/s, Area: 130825.0m², Vol: 39705.8m³

Step 17900/19999, Sim Time: 11503.421s (+5.454e-01s), Max Depth: 0.7330453786m, Max Vel: 0.5270591586m/s, Area: 130825.0m², Vol: 39703.0m³

Step 18000/19999, Sim Time: 11557.961s (+5.454e-01s), Max Depth: 0.7330476896m, Max Vel: 0.5269888434m/s, Area: 130800.0m², Vol: 39700.7m³

Step 18100/19999, Sim Time: 11612.501s (+5.454e-01s), Max Depth: 0.7330554154m, Max Vel: 0.5269192678m/s, Area: 130750.0m², Vol: 39698.6m³

Step 18200/19999, Sim Time: 11667.043s (+5.454e-01s), Max Depth: 0.7330682594m, Max Vel: 0.5268502993m/s, Area: 130750.0m², Vol: 39696.8m³

Step 18300/19999, Sim Time: 11721.586s (+5.454e-01s), Max Depth: 0.7330858821m, Max Vel: 0.5267821920m/s, Area: 130700.0m², Vol: 39695.3m³

Step 18400/19999, Sim Time: 11776.129s (+5.454e-01s), Max Depth: 0.7331079071m, Max Vel: 0.5267146805m/s, Area: 130675.0m², Vol: 39694.0m³

Step 18500/19999, Sim Time: 11830.672s (+5.454e-01s), Max Depth: 0.7331339285m, Max Vel: 0.5266481213m/s, Area: 130600.0m², Vol: 39692.7m³

Step 18600/19999, Sim Time: 11885.216s (+5.454e-01s), Max Depth: 0.7331635920m, Max Vel: 0.5265826513m/s, Area: 130625.0m², Vol: 39691.7m³

Step 18700/19999, Sim Time: 11939.759s (+5.454e-01s), Max Depth: 0.7331965316m, Max Vel: 0.5265184073m/s, Area: 130625.0m², Vol: 39691.0m³

Step 18800/19999, Sim Time: 11994.303s (+5.454e-01s), Max Depth: 0.7332322565m, Max Vel: 0.5264522446m/s, Area: 130625.0m², Vol: 39690.7m³

Step 18900/19999, Sim Time: 12048.847s (+5.454e-01s), Max Depth: 0.7332700467m, Max Vel: 0.5263863480m/s, Area: 130600.0m², Vol: 39690.7m³

Step 19000/19999, Sim Time: 12103.391s (+5.454e-01s), Max Depth: 0.7333098494m, Max Vel: 0.5263215649m/s, Area: 130650.0m², Vol: 39691.1m³

Step 19100/19999, Sim Time: 12157.934s (+5.454e-01s), Max Depth: 0.7333514688m, Max Vel: 0.5262590183m/s, Area: 130650.0m², Vol: 39691.9m³

Step 19200/19999, Sim Time: 12212.477s (+5.454e-01s), Max Depth: 0.7333946851m, Max Vel: 0.5261992596m/s, Area: 130625.0m², Vol: 39693.0m³

Step 19300/19999, Sim Time: 12267.020s (+5.454e-01s), Max Depth: 0.7334392710m, Max Vel: 0.5261424209m/s, Area: 130675.0m², Vol: 39694.6m³

Step 19400/19999, Sim Time: 12321.563s (+5.454e-01s), Max Depth: 0.7334849470m, Max Vel: 0.5260885293m/s, Area: 130725.0m², Vol: 39696.6m³

Step 19500/19999, Sim Time: 12376.104s (+5.454e-01s), Max Depth: 0.7335314523m, Max Vel: 0.5260375832m/s, Area: 130775.0m², Vol: 39699.3m³

Step 19600/19999, Sim Time: 12430.646s (+5.454e-01s), Max Depth: 0.7335785129m, Max Vel: 0.5259895917m/s, Area: 130800.0m², Vol: 39702.7m³

Step 19700/19999, Sim Time: 12485.186s (+5.454e-01s), Max Depth: 0.7336258598m, Max Vel: 0.5259445568m/s, Area: 130825.0m², Vol: 39706.5m³

Step 19800/19999, Sim Time: 12539.726s (+5.454e-01s), Max Depth: 0.7336732337m, Max Vel: 0.5259024719m/s, Area: 130800.0m², Vol: 39710.6m³

Step 19900/19999, Sim Time: 12594.265s (+5.454e-01s), Max Depth: 0.7337203824m, Max Vel: 0.5258633370m/s, Area: 130825.0m², Vol: 39714.9m³

Step 19999/19999, Sim Time: 12648.258s (+5.454e-01s), Max Depth: 0.7337666009m, Max Vel: 0.5258274906m/s, Area: 130825.0m², Vol: 39719.5m³

Simulation finished 20000 steps in 159.97 seconds (wall clock).

Final Maximum Flood Extent Area: 134625.00 m²

Peak Recorded Water Depth Anywhere: 0.735 m

Phase 1 simulation complete. Final sim time: 12648.26s

End of Phase 1 at Sim Time: 12648.26 s

Stored final Phase 1 depth as steady\_state\_h for visualization.

--- Starting Phase 2: Adding Rainfall (30000 steps) ---

Adding rainfall rate: 30.0 mm/hr (8.33e-06 m/s)

Added rainfall: rate=8.333333333333334e-06 m/s, duration=30000 steps

Infiltration rate for Phase 2 is 0.

Running Phase 2 for 30000 additional steps...

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337714716m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39723.8m³

Step 100/29999, Sim Time: 55.076s (+5.452e-01s), Max Depth: 0.7342283179m, Max Vel: 0.5258635373m/s, Area: 130875.0m², Vol: 40148.7m³

Step 200/29999, Sim Time: 109.589s (+5.450e-01s), Max Depth: 0.7346737581m, Max Vel: 0.5263817510m/s, Area: 130900.0m², Vol: 40570.7m³

Step 300/29999, Sim Time: 164.075s (+5.447e-01s), Max Depth: 0.7351418043m, Max Vel: 0.5270850004m/s, Area: 131175.0m², Vol: 40990.4m³

Step 400/29999, Sim Time: 218.538s (+5.445e-01s), Max Depth: 0.7355840987m, Max Vel: 0.5275827602m/s, Area: 131250.0m², Vol: 41408.9m³

Step 500/29999, Sim Time: 272.979s (+5.443e-01s), Max Depth: 0.7359937424m, Max Vel: 0.5280404890m/s, Area: 131350.0m², Vol: 41825.6m³

Step 600/29999, Sim Time: 327.401s (+5.441e-01s), Max Depth: 0.7363557220m, Max Vel: 0.5284938174m/s, Area: 131575.0m², Vol: 42241.2m³

Step 700/29999, Sim Time: 381.805s (+5.440e-01s), Max Depth: 0.7366703905m, Max Vel: 0.5289420204m/s, Area: 131700.0m², Vol: 42656.2m³

Step 800/29999, Sim Time: 436.192s (+5.438e-01s), Max Depth: 0.7369341919m, Max Vel: 0.5293563949m/s, Area: 131775.0m², Vol: 43070.1m³

Step 900/29999, Sim Time: 490.566s (+5.437e-01s), Max Depth: 0.7370900271m, Max Vel: 0.5298153743m/s, Area: 131825.0m², Vol: 43482.6m³

Step 1000/29999, Sim Time: 544.927s (+5.436e-01s), Max Depth: 0.7371462189m, Max Vel: 0.5304157177m/s, Area: 131875.0m², Vol: 43893.6m³

Step 1100/29999, Sim Time: 599.279s (+5.435e-01s), Max Depth: 0.7371051012m, Max Vel: 0.5309597521m/s, Area: 132050.0m², Vol: 44303.1m³

Step 1200/29999, Sim Time: 653.623s (+5.434e-01s), Max Depth: 0.7369817606m, Max Vel: 0.5315494854m/s, Area: 132150.0m², Vol: 44711.7m³

Step 1300/29999, Sim Time: 707.962s (+5.434e-01s), Max Depth: 0.7367822603m, Max Vel: 0.5321371672m/s, Area: 132250.0m², Vol: 45119.3m³

Step 1400/29999, Sim Time: 762.299s (+5.434e-01s), Max Depth: 0.7365158669m, Max Vel: 0.5327467987m/s, Area: 132400.0m², Vol: 45526.1m³

Step 1500/29999, Sim Time: 816.634s (+5.434e-01s), Max Depth: 0.7361920772m, Max Vel: 0.5333588550m/s, Area: 132450.0m², Vol: 45932.3m³

Step 1600/29999, Sim Time: 870.970s (+5.434e-01s), Max Depth: 0.7358219113m, Max Vel: 0.5339703008m/s, Area: 132525.0m², Vol: 46338.1m³

Step 1700/29999, Sim Time: 925.307s (+5.434e-01s), Max Depth: 0.7354148447m, Max Vel: 0.5345726201m/s, Area: 132650.0m², Vol: 46743.3m³

Step 1800/29999, Sim Time: 979.648s (+5.434e-01s), Max Depth: 0.7349799671m, Max Vel: 0.5351668957m/s, Area: 132725.0m², Vol: 47148.0m³

Step 1900/29999, Sim Time: 1033.992s (+5.435e-01s), Max Depth: 0.7345263498m, Max Vel: 0.5357480374m/s, Area: 132800.0m², Vol: 47552.5m³

Step 2000/29999, Sim Time: 1088.340s (+5.435e-01s), Max Depth: 0.7340614503m, Max Vel: 0.5363201114m/s, Area: 132825.0m², Vol: 47956.9m³

Step 2100/29999, Sim Time: 1142.694s (+5.436e-01s), Max Depth: 0.7335937527m, Max Vel: 0.5368802222m/s, Area: 132950.0m², Vol: 48361.1m³

Step 2200/29999, Sim Time: 1197.052s (+5.436e-01s), Max Depth: 0.7331306504m, Max Vel: 0.5374342623m/s, Area: 132950.0m², Vol: 48765.3m³

Step 2300/29999, Sim Time: 1251.416s (+5.437e-01s), Max Depth: 0.7326733470m, Max Vel: 0.5379651936m/s, Area: 195625.0m², Vol: 49164.5m³

Step 2400/29999, Sim Time: 1282.038s (+1.380e-01s), Max Depth: 0.7325258066m, Max Vel: 9.9999999990m/s, Area: 442525.0m², Vol: 49330.3m³

Step 2500/29999, Sim Time: 1305.473s (+1.380e-01s), Max Depth: 0.7328645257m, Max Vel: 9.9999999990m/s, Area: 490300.0m², Vol: 49425.5m³

Step 2600/29999, Sim Time: 1330.917s (+1.380e-01s), Max Depth: 0.7336458461m, Max Vel: 9.9999999992m/s, Area: 492050.0m², Vol: 49523.6m³

Step 2700/29999, Sim Time: 1353.570s (+1.380e-01s), Max Depth: 0.7344570147m, Max Vel: 9.9999999992m/s, Area: 491125.0m², Vol: 49605.2m³

Step 2800/29999, Sim Time: 1376.527s (+1.379e-01s), Max Depth: 0.7353358751m, Max Vel: 9.9999999992m/s, Area: 495925.0m², Vol: 49683.1m³

Step 2900/29999, Sim Time: 1397.464s (+1.656e-01s), Max Depth: 0.7364603293m, Max Vel: 7.3762523803m/s, Area: 499125.0m², Vol: 49752.5m³

Step 3000/29999, Sim Time: 1420.122s (+1.578e-01s), Max Depth: 0.7378418461m, Max Vel: 7.7387846246m/s, Area: 504800.0m², Vol: 49829.1m³

Step 3100/29999, Sim Time: 1443.998s (+1.383e-01s), Max Depth: 0.7394782084m, Max Vel: 9.8488898888m/s, Area: 508950.0m², Vol: 49915.7m³

Step 3200/29999, Sim Time: 1472.476s (+1.378e-01s), Max Depth: 0.7426062729m, Max Vel: 9.9999999995m/s, Area: 509725.0m², Vol: 50027.6m³

Step 3300/29999, Sim Time: 1505.975s (+1.377e-01s), Max Depth: 0.7461382405m, Max Vel: 9.9999999999m/s, Area: 520225.0m², Vol: 50174.0m³

Step 3400/29999, Sim Time: 1536.068s (+1.377e-01s), Max Depth: 0.7497665361m, Max Vel: 9.9999999999m/s, Area: 522875.0m², Vol: 50322.5m³

Step 3500/29999, Sim Time: 1556.537s (+1.376e-01s), Max Depth: 0.7522316910m, Max Vel: 9.9999999999m/s, Area: 525450.0m², Vol: 50432.3m³

Step 3600/29999, Sim Time: 1582.114s (+5.143e-01s), Max Depth: 0.7575205541m, Max Vel: 0.6750861470m/s, Area: 529775.0m², Vol: 50584.2m³

Step 3700/29999, Sim Time: 1624.724s (+3.500e-01s), Max Depth: 0.7671026269m, Max Vel: 2.2718163270m/s, Area: 534275.0m², Vol: 50864.1m³

Step 3800/29999, Sim Time: 1655.666s (+2.782e-01s), Max Depth: 0.7765688650m, Max Vel: 3.5415228648m/s, Area: 541300.0m², Vol: 51092.7m³

Step 3900/29999, Sim Time: 1681.342s (+2.389e-01s), Max Depth: 0.7850600456m, Max Vel: 4.5599040537m/s, Area: 543525.0m², Vol: 51295.2m³

Step 4000/29999, Sim Time: 1703.856s (+2.132e-01s), Max Depth: 0.7917187919m, Max Vel: 5.4287938021m/s, Area: 546000.0m², Vol: 51480.1m³

Step 4100/29999, Sim Time: 1724.197s (+1.946e-01s), Max Depth: 0.7981377346m, Max Vel: 6.2003925093m/s, Area: 547775.0m², Vol: 51654.8m³

Step 4200/29999, Sim Time: 1739.154s (+1.367e-01s), Max Depth: 0.8028666275m, Max Vel: 9.9999999990m/s, Area: 549050.0m², Vol: 51786.0m³

Step 4300/29999, Sim Time: 1752.815s (+1.366e-01s), Max Depth: 0.8072540809m, Max Vel: 9.9999999990m/s, Area: 549850.0m², Vol: 51906.3m³

Step 4400/29999, Sim Time: 1766.468s (+1.365e-01s), Max Depth: 0.8108968122m, Max Vel: 9.9999999990m/s, Area: 551825.0m², Vol: 52026.4m³

Step 4500/29999, Sim Time: 1780.116s (+1.365e-01s), Max Depth: 0.8136600732m, Max Vel: 9.9999999990m/s, Area: 551775.0m², Vol: 52147.3m³

Step 4600/29999, Sim Time: 1793.758s (+1.364e-01s), Max Depth: 0.8165419740m, Max Vel: 9.9999999990m/s, Area: 555400.0m², Vol: 52267.0m³

Step 4700/29999, Sim Time: 1807.395s (+1.363e-01s), Max Depth: 0.8198056949m, Max Vel: 9.9999999990m/s, Area: 558825.0m², Vol: 52386.1m³

Step 4800/29999, Sim Time: 1821.026s (+1.363e-01s), Max Depth: 0.8228703098m, Max Vel: 9.9999999990m/s, Area: 558600.0m², Vol: 52503.5m³

Step 4900/29999, Sim Time: 1834.651s (+1.362e-01s), Max Depth: 0.8260264449m, Max Vel: 9.9999999990m/s, Area: 557875.0m², Vol: 52622.1m³

Step 5000/29999, Sim Time: 1848.270s (+1.362e-01s), Max Depth: 0.8290798356m, Max Vel: 9.9999999990m/s, Area: 561575.0m², Vol: 52741.0m³

Step 5100/29999, Sim Time: 1861.885s (+1.361e-01s), Max Depth: 0.8315090960m, Max Vel: 9.9999999990m/s, Area: 561925.0m², Vol: 52859.8m³

Step 5200/29999, Sim Time: 1875.495s (+1.361e-01s), Max Depth: 0.8338853203m, Max Vel: 9.9999999990m/s, Area: 564325.0m², Vol: 52979.4m³

Step 5300/29999, Sim Time: 1889.100s (+1.360e-01s), Max Depth: 0.8368284185m, Max Vel: 9.9999999990m/s, Area: 564125.0m², Vol: 53099.5m³

Step 5400/29999, Sim Time: 1902.700s (+1.360e-01s), Max Depth: 0.8399096682m, Max Vel: 9.9999999990m/s, Area: 565475.0m², Vol: 53219.9m³

Step 5500/29999, Sim Time: 1916.295s (+1.359e-01s), Max Depth: 0.8425094677m, Max Vel: 9.9999999990m/s, Area: 566300.0m², Vol: 53340.7m³

Step 5600/29999, Sim Time: 1929.885s (+1.359e-01s), Max Depth: 0.8446345847m, Max Vel: 9.9999999990m/s, Area: 569575.0m², Vol: 53461.0m³

Step 5700/29999, Sim Time: 1943.471s (+1.358e-01s), Max Depth: 0.8476358766m, Max Vel: 9.9999999990m/s, Area: 570500.0m², Vol: 53581.6m³

Step 5800/29999, Sim Time: 1957.052s (+1.358e-01s), Max Depth: 0.8498813853m, Max Vel: 9.9999999990m/s, Area: 570775.0m², Vol: 53703.0m³

Step 5900/29999, Sim Time: 1970.629s (+1.357e-01s), Max Depth: 0.8523755653m, Max Vel: 9.9999999990m/s, Area: 573775.0m², Vol: 53825.8m³

Step 6000/29999, Sim Time: 1984.200s (+1.357e-01s), Max Depth: 0.8559853564m, Max Vel: 9.9999999990m/s, Area: 576325.0m², Vol: 53948.7m³

Step 6100/29999, Sim Time: 1997.766s (+1.356e-01s), Max Depth: 0.8586090757m, Max Vel: 9.9999999990m/s, Area: 575400.0m², Vol: 54072.9m³

Step 6200/29999, Sim Time: 2011.327s (+1.356e-01s), Max Depth: 0.8615440726m, Max Vel: 9.9999999990m/s, Area: 580225.0m², Vol: 54198.1m³

Step 6300/29999, Sim Time: 2024.883s (+1.355e-01s), Max Depth: 0.8645594295m, Max Vel: 9.9999999990m/s, Area: 580575.0m², Vol: 54324.8m³

Step 6400/29999, Sim Time: 2038.434s (+1.355e-01s), Max Depth: 0.8673411642m, Max Vel: 9.9999999990m/s, Area: 582500.0m², Vol: 54453.2m³

Step 6500/29999, Sim Time: 2051.979s (+1.354e-01s), Max Depth: 0.8697045257m, Max Vel: 9.9999999990m/s, Area: 583425.0m², Vol: 54580.7m³

Step 6600/29999, Sim Time: 2065.522s (+1.354e-01s), Max Depth: 0.8716837414m, Max Vel: 9.9999999990m/s, Area: 585000.0m², Vol: 54708.1m³

Step 6700/29999, Sim Time: 2079.060s (+1.354e-01s), Max Depth: 0.8735411575m, Max Vel: 9.9999999990m/s, Area: 585975.0m², Vol: 54835.1m³

Step 6800/29999, Sim Time: 2092.596s (+1.353e-01s), Max Depth: 0.8750063069m, Max Vel: 9.9999999990m/s, Area: 586700.0m², Vol: 54961.1m³

Step 6900/29999, Sim Time: 2106.130s (+1.353e-01s), Max Depth: 0.8766028528m, Max Vel: 9.9999999990m/s, Area: 586250.0m², Vol: 55088.4m³

Step 7000/29999, Sim Time: 2119.660s (+1.353e-01s), Max Depth: 0.8782033301m, Max Vel: 9.9999999990m/s, Area: 589250.0m², Vol: 55215.9m³

Step 7100/29999, Sim Time: 2133.188s (+1.353e-01s), Max Depth: 0.8795613735m, Max Vel: 9.9999999990m/s, Area: 590825.0m², Vol: 55342.7m³

Step 7200/29999, Sim Time: 2146.713s (+1.352e-01s), Max Depth: 0.8813425368m, Max Vel: 9.9999999990m/s, Area: 593525.0m², Vol: 55471.0m³

Step 7300/29999, Sim Time: 2160.235s (+1.352e-01s), Max Depth: 0.8834061024m, Max Vel: 9.9999999990m/s, Area: 593125.0m², Vol: 55602.5m³

Step 7400/29999, Sim Time: 2173.753s (+1.352e-01s), Max Depth: 0.8850838569m, Max Vel: 9.9999999990m/s, Area: 595250.0m², Vol: 55736.6m³

Step 7500/29999, Sim Time: 2187.269s (+1.351e-01s), Max Depth: 0.8866128168m, Max Vel: 9.9999999990m/s, Area: 597475.0m², Vol: 55872.1m³

Step 7600/29999, Sim Time: 2200.782s (+1.351e-01s), Max Depth: 0.8879402012m, Max Vel: 9.9999999990m/s, Area: 579900.0m², Vol: 55916.0m³

Step 7700/29999, Sim Time: 2214.293s (+1.351e-01s), Max Depth: 0.8891118402m, Max Vel: 9.9999999990m/s, Area: 571425.0m², Vol: 55965.7m³

Step 7800/29999, Sim Time: 2227.802s (+1.351e-01s), Max Depth: 0.8904101502m, Max Vel: 9.9999999990m/s, Area: 565625.0m², Vol: 56021.2m³

Step 7900/29999, Sim Time: 2241.309s (+1.351e-01s), Max Depth: 0.8910668956m, Max Vel: 9.9999999990m/s, Area: 559100.0m², Vol: 56080.6m³

Step 8000/29999, Sim Time: 2254.815s (+1.351e-01s), Max Depth: 0.8917151894m, Max Vel: 9.9999999990m/s, Area: 556175.0m², Vol: 56143.1m³

Step 8100/29999, Sim Time: 2268.320s (+1.350e-01s), Max Depth: 0.8927921185m, Max Vel: 9.9999999990m/s, Area: 553125.0m², Vol: 56209.9m³

Step 8200/29999, Sim Time: 2281.823s (+1.350e-01s), Max Depth: 0.8931538068m, Max Vel: 9.9999999990m/s, Area: 549125.0m², Vol: 56280.2m³

Step 8300/29999, Sim Time: 2295.326s (+1.350e-01s), Max Depth: 0.8936227827m, Max Vel: 9.9999999990m/s, Area: 545700.0m², Vol: 56352.6m³

Step 8400/29999, Sim Time: 2308.828s (+1.350e-01s), Max Depth: 0.8941990677m, Max Vel: 9.9999999990m/s, Area: 542875.0m², Vol: 56426.2m³

Step 8500/29999, Sim Time: 2322.328s (+1.350e-01s), Max Depth: 0.8948517932m, Max Vel: 9.9999999990m/s, Area: 540725.0m², Vol: 56498.1m³

Step 8600/29999, Sim Time: 2335.829s (+1.350e-01s), Max Depth: 0.8943862949m, Max Vel: 9.9999999990m/s, Area: 536100.0m², Vol: 56566.8m³

Step 8700/29999, Sim Time: 2349.329s (+1.350e-01s), Max Depth: 0.8950979441m, Max Vel: 9.9999999990m/s, Area: 533925.0m², Vol: 56635.0m³

Step 8800/29999, Sim Time: 2362.828s (+1.350e-01s), Max Depth: 0.8960217905m, Max Vel: 9.9999999990m/s, Area: 531750.0m², Vol: 56706.4m³

Step 8900/29999, Sim Time: 2376.326s (+1.350e-01s), Max Depth: 0.8969216495m, Max Vel: 9.9999999990m/s, Area: 529575.0m², Vol: 56777.6m³

Step 9000/29999, Sim Time: 2389.821s (+1.349e-01s), Max Depth: 0.8982304309m, Max Vel: 9.9999999990m/s, Area: 527425.0m², Vol: 56850.8m³

Step 9100/29999, Sim Time: 2403.314s (+1.349e-01s), Max Depth: 0.8995493870m, Max Vel: 9.9999999990m/s, Area: 525750.0m², Vol: 56926.6m³

Step 9200/29999, Sim Time: 2416.804s (+1.349e-01s), Max Depth: 0.9031185304m, Max Vel: 9.9999999990m/s, Area: 525325.0m², Vol: 57005.7m³

Step 9300/29999, Sim Time: 2430.285s (+1.348e-01s), Max Depth: 0.9092563122m, Max Vel: 9.9999999999m/s, Area: 521875.0m², Vol: 57090.9m³

Step 9400/29999, Sim Time: 2443.755s (+1.347e-01s), Max Depth: 0.9147658264m, Max Vel: 9.9999999990m/s, Area: 519500.0m², Vol: 57182.7m³

Step 9500/29999, Sim Time: 2457.217s (+1.346e-01s), Max Depth: 0.9207605857m, Max Vel: 9.9999999990m/s, Area: 520400.0m², Vol: 57278.8m³

Step 9600/29999, Sim Time: 2470.667s (+1.344e-01s), Max Depth: 0.9273966489m, Max Vel: 9.9999999990m/s, Area: 519325.0m², Vol: 57377.9m³

Step 9700/29999, Sim Time: 2484.107s (+1.344e-01s), Max Depth: 0.9330849388m, Max Vel: 9.9999999990m/s, Area: 518475.0m², Vol: 57478.6m³

Step 9800/29999, Sim Time: 2497.538s (+1.343e-01s), Max Depth: 0.9370840546m, Max Vel: 9.9999999990m/s, Area: 516200.0m², Vol: 57580.3m³

Step 9900/29999, Sim Time: 2510.964s (+1.342e-01s), Max Depth: 0.9411700295m, Max Vel: 9.9999999990m/s, Area: 513750.0m², Vol: 57684.1m³

Step 10000/29999, Sim Time: 2524.381s (+1.341e-01s), Max Depth: 0.9467520987m, Max Vel: 9.9999999990m/s, Area: 512125.0m², Vol: 57789.7m³

Step 10100/29999, Sim Time: 2537.790s (+1.341e-01s), Max Depth: 0.9503361500m, Max Vel: 9.9999999990m/s, Area: 512050.0m², Vol: 57896.9m³

Step 10200/29999, Sim Time: 2551.195s (+1.340e-01s), Max Depth: 0.9516728209m, Max Vel: 9.9999999990m/s, Area: 509525.0m², Vol: 58002.7m³

Step 10300/29999, Sim Time: 2564.598s (+1.340e-01s), Max Depth: 0.9539659680m, Max Vel: 9.9999999990m/s, Area: 508600.0m², Vol: 58105.6m³

Step 10400/29999, Sim Time: 2577.995s (+1.339e-01s), Max Depth: 0.9578536746m, Max Vel: 9.9999999990m/s, Area: 505550.0m², Vol: 58205.8m³

Step 10500/29999, Sim Time: 2591.388s (+1.339e-01s), Max Depth: 0.9603014038m, Max Vel: 9.9999999990m/s, Area: 504425.0m², Vol: 58304.4m³

Step 10600/29999, Sim Time: 2604.776s (+1.339e-01s), Max Depth: 0.9625296874m, Max Vel: 9.9999999999m/s, Area: 504000.0m², Vol: 58403.5m³

Step 10700/29999, Sim Time: 2618.160s (+1.338e-01s), Max Depth: 0.9650126021m, Max Vel: 9.9999999990m/s, Area: 503500.0m², Vol: 58504.4m³

Step 10800/29999, Sim Time: 2631.541s (+1.338e-01s), Max Depth: 0.9671124867m, Max Vel: 9.9999999990m/s, Area: 502100.0m², Vol: 58598.5m³

Step 10900/29999, Sim Time: 2644.919s (+1.338e-01s), Max Depth: 0.9691570200m, Max Vel: 9.9999999990m/s, Area: 498800.0m², Vol: 58689.6m³

Step 11000/29999, Sim Time: 2658.292s (+1.337e-01s), Max Depth: 0.9719090371m, Max Vel: 9.9999999990m/s, Area: 497725.0m², Vol: 58780.0m³

Step 11100/29999, Sim Time: 2671.661s (+1.337e-01s), Max Depth: 0.9741011420m, Max Vel: 9.9999999990m/s, Area: 495675.0m², Vol: 58869.7m³

Step 11200/29999, Sim Time: 2685.028s (+1.336e-01s), Max Depth: 0.9759267272m, Max Vel: 9.9999999990m/s, Area: 495325.0m², Vol: 58956.8m³

Step 11300/29999, Sim Time: 2698.390s (+1.336e-01s), Max Depth: 0.9786595353m, Max Vel: 9.9999999990m/s, Area: 494425.0m², Vol: 59043.7m³

Step 11400/29999, Sim Time: 2711.748s (+1.336e-01s), Max Depth: 0.9814689276m, Max Vel: 9.9999999990m/s, Area: 492350.0m², Vol: 59133.0m³

Step 11500/29999, Sim Time: 2725.102s (+1.335e-01s), Max Depth: 0.9835085463m, Max Vel: 9.9999999990m/s, Area: 491525.0m², Vol: 59222.9m³

Step 11600/29999, Sim Time: 2738.454s (+1.335e-01s), Max Depth: 0.9846235376m, Max Vel: 9.9999999990m/s, Area: 489200.0m², Vol: 59309.1m³

Step 11700/29999, Sim Time: 2751.804s (+1.335e-01s), Max Depth: 0.9853509103m, Max Vel: 9.9999999990m/s, Area: 489475.0m², Vol: 59391.0m³

Step 11800/29999, Sim Time: 2765.153s (+1.335e-01s), Max Depth: 0.9866938773m, Max Vel: 9.9999999990m/s, Area: 488875.0m², Vol: 59472.2m³

Step 11900/29999, Sim Time: 2778.499s (+1.335e-01s), Max Depth: 0.9880321452m, Max Vel: 9.9999999990m/s, Area: 488150.0m², Vol: 59553.7m³

Step 12000/29999, Sim Time: 2791.843s (+1.334e-01s), Max Depth: 0.9889529948m, Max Vel: 9.9999999990m/s, Area: 486375.0m², Vol: 59634.3m³

Step 12100/29999, Sim Time: 2805.185s (+1.334e-01s), Max Depth: 0.9914552827m, Max Vel: 9.9999999990m/s, Area: 483625.0m², Vol: 59716.2m³

Step 12200/29999, Sim Time: 2818.523s (+1.334e-01s), Max Depth: 0.9941431256m, Max Vel: 9.9999999990m/s, Area: 483250.0m², Vol: 59801.9m³

Step 12300/29999, Sim Time: 2831.856s (+1.333e-01s), Max Depth: 0.9974094321m, Max Vel: 9.9999999990m/s, Area: 482600.0m², Vol: 59890.0m³

Step 12400/29999, Sim Time: 2845.184s (+1.333e-01s), Max Depth: 1.0003995781m, Max Vel: 9.9999999990m/s, Area: 480475.0m², Vol: 59980.9m³

Step 12500/29999, Sim Time: 2858.507s (+1.332e-01s), Max Depth: 1.0026333471m, Max Vel: 9.9999999990m/s, Area: 477775.0m², Vol: 60072.7m³

Step 12600/29999, Sim Time: 2871.828s (+1.332e-01s), Max Depth: 1.0040924335m, Max Vel: 9.9999999990m/s, Area: 476875.0m², Vol: 60164.3m³

Step 12700/29999, Sim Time: 2885.147s (+1.332e-01s), Max Depth: 1.0054747748m, Max Vel: 9.9999999990m/s, Area: 477050.0m², Vol: 60255.8m³

Step 12800/29999, Sim Time: 2898.463s (+1.332e-01s), Max Depth: 1.0069910463m, Max Vel: 9.9999999990m/s, Area: 475950.0m², Vol: 60347.8m³

Step 12900/29999, Sim Time: 2911.777s (+1.331e-01s), Max Depth: 1.0086303456m, Max Vel: 9.9999999990m/s, Area: 473625.0m², Vol: 60440.2m³

Step 13000/29999, Sim Time: 2925.088s (+1.331e-01s), Max Depth: 1.0109813182m, Max Vel: 9.9999999998m/s, Area: 474050.0m², Vol: 60535.2m³

Step 13100/29999, Sim Time: 2938.394s (+1.330e-01s), Max Depth: 1.0137453920m, Max Vel: 9.9999999990m/s, Area: 473075.0m², Vol: 60635.1m³

Step 13200/29999, Sim Time: 2951.696s (+1.330e-01s), Max Depth: 1.0165140990m, Max Vel: 9.9999999990m/s, Area: 471975.0m², Vol: 60734.9m³

Step 13300/29999, Sim Time: 2964.994s (+1.330e-01s), Max Depth: 1.0195112486m, Max Vel: 9.9999999990m/s, Area: 470475.0m², Vol: 60836.5m³

Step 13400/29999, Sim Time: 2978.287s (+1.329e-01s), Max Depth: 1.0224796554m, Max Vel: 9.9999999990m/s, Area: 469525.0m², Vol: 60941.9m³

Step 13500/29999, Sim Time: 2991.575s (+1.329e-01s), Max Depth: 1.0257894784m, Max Vel: 9.9999999990m/s, Area: 468250.0m², Vol: 61052.2m³

Step 13600/29999, Sim Time: 3004.858s (+1.328e-01s), Max Depth: 1.0290906967m, Max Vel: 9.9999999990m/s, Area: 468300.0m², Vol: 61170.0m³

Step 13700/29999, Sim Time: 3018.136s (+1.328e-01s), Max Depth: 1.0325158426m, Max Vel: 9.9999999990m/s, Area: 467425.0m², Vol: 61295.4m³

Step 13800/29999, Sim Time: 3031.409s (+1.327e-01s), Max Depth: 1.0349955974m, Max Vel: 9.9999999990m/s, Area: 467275.0m², Vol: 61425.4m³

Step 13900/29999, Sim Time: 3044.678s (+1.327e-01s), Max Depth: 1.0376355220m, Max Vel: 9.9999999990m/s, Area: 465375.0m², Vol: 61558.8m³

Step 14000/29999, Sim Time: 3057.943s (+1.326e-01s), Max Depth: 1.0406494983m, Max Vel: 9.9999999990m/s, Area: 463950.0m², Vol: 61696.7m³

Step 14100/29999, Sim Time: 3071.203s (+1.326e-01s), Max Depth: 1.0444460592m, Max Vel: 9.9999999990m/s, Area: 464275.0m², Vol: 61840.8m³

Step 14200/29999, Sim Time: 3084.457s (+1.325e-01s), Max Depth: 1.0475409189m, Max Vel: 9.9999999990m/s, Area: 462300.0m², Vol: 61989.5m³

Step 14300/29999, Sim Time: 3097.707s (+1.325e-01s), Max Depth: 1.0495659949m, Max Vel: 9.9999999990m/s, Area: 462825.0m², Vol: 62136.0m³

Step 14400/29999, Sim Time: 3110.955s (+1.325e-01s), Max Depth: 1.0513473385m, Max Vel: 9.9999999990m/s, Area: 463000.0m², Vol: 62277.8m³

Step 14500/29999, Sim Time: 3124.200s (+1.324e-01s), Max Depth: 1.0527290131m, Max Vel: 9.9999999990m/s, Area: 461425.0m², Vol: 62418.1m³

Step 14600/29999, Sim Time: 3137.443s (+1.324e-01s), Max Depth: 1.0536747934m, Max Vel: 9.9999999990m/s, Area: 460750.0m², Vol: 62554.8m³

Step 14700/29999, Sim Time: 3150.685s (+1.324e-01s), Max Depth: 1.0541943185m, Max Vel: 9.9999999990m/s, Area: 459725.0m², Vol: 62687.9m³

Step 14800/29999, Sim Time: 3163.926s (+1.324e-01s), Max Depth: 1.0549194876m, Max Vel: 9.9999999990m/s, Area: 459150.0m², Vol: 62819.7m³

Step 14900/29999, Sim Time: 3177.165s (+1.324e-01s), Max Depth: 1.0567916456m, Max Vel: 9.9999999990m/s, Area: 457950.0m², Vol: 62951.3m³

Step 15000/29999, Sim Time: 3190.402s (+1.324e-01s), Max Depth: 1.0581139849m, Max Vel: 9.9999999990m/s, Area: 457975.0m², Vol: 63087.0m³

Step 15100/29999, Sim Time: 3203.637s (+1.323e-01s), Max Depth: 1.0588460016m, Max Vel: 9.9999999990m/s, Area: 455825.0m², Vol: 63224.0m³

Step 15200/29999, Sim Time: 3216.871s (+1.323e-01s), Max Depth: 1.0598375436m, Max Vel: 9.9999999990m/s, Area: 454700.0m², Vol: 63364.5m³

Step 15300/29999, Sim Time: 3230.102s (+1.323e-01s), Max Depth: 1.0624414046m, Max Vel: 9.9999999990m/s, Area: 454275.0m², Vol: 63509.3m³

Step 15400/29999, Sim Time: 3243.331s (+1.323e-01s), Max Depth: 1.0629078402m, Max Vel: 9.9999999990m/s, Area: 451950.0m², Vol: 63654.1m³

Step 15500/29999, Sim Time: 3256.558s (+1.323e-01s), Max Depth: 1.0648336256m, Max Vel: 9.9999999990m/s, Area: 451375.0m², Vol: 63795.4m³

Step 15600/29999, Sim Time: 3269.780s (+1.322e-01s), Max Depth: 1.0685792260m, Max Vel: 9.9999999990m/s, Area: 450700.0m², Vol: 63931.1m³

Step 15700/29999, Sim Time: 3282.998s (+1.322e-01s), Max Depth: 1.0704026802m, Max Vel: 9.9999999990m/s, Area: 450375.0m², Vol: 64059.2m³

Step 15800/29999, Sim Time: 3296.215s (+1.322e-01s), Max Depth: 1.0703786727m, Max Vel: 9.9999999990m/s, Area: 449225.0m², Vol: 64182.5m³

Step 15900/29999, Sim Time: 3309.431s (+1.321e-01s), Max Depth: 1.0737661209m, Max Vel: 9.9999999999m/s, Area: 448050.0m², Vol: 64305.6m³

Step 16000/29999, Sim Time: 3322.638s (+1.320e-01s), Max Depth: 1.0798582267m, Max Vel: 9.9999999990m/s, Area: 447225.0m², Vol: 64432.3m³

Step 16100/29999, Sim Time: 3335.838s (+1.320e-01s), Max Depth: 1.0828912498m, Max Vel: 9.9999999990m/s, Area: 445400.0m², Vol: 64558.2m³

Step 16200/29999, Sim Time: 3349.036s (+1.320e-01s), Max Depth: 1.0831038687m, Max Vel: 9.9999999990m/s, Area: 446125.0m², Vol: 64679.7m³

Step 16300/29999, Sim Time: 3362.232s (+1.319e-01s), Max Depth: 1.0861005881m, Max Vel: 9.9999999990m/s, Area: 445500.0m², Vol: 64795.7m³

Step 16400/29999, Sim Time: 3375.422s (+1.319e-01s), Max Depth: 1.0906964461m, Max Vel: 9.9999999990m/s, Area: 443950.0m², Vol: 64911.2m³

Step 16500/29999, Sim Time: 3388.607s (+1.318e-01s), Max Depth: 1.0936266708m, Max Vel: 9.9999999990m/s, Area: 442700.0m², Vol: 65025.5m³

Step 16600/29999, Sim Time: 3401.787s (+1.318e-01s), Max Depth: 1.0961099872m, Max Vel: 9.9999999990m/s, Area: 442475.0m², Vol: 65138.6m³

Step 16700/29999, Sim Time: 3414.964s (+1.318e-01s), Max Depth: 1.0981198884m, Max Vel: 9.9999999990m/s, Area: 439525.0m², Vol: 65250.5m³

Step 16800/29999, Sim Time: 3428.137s (+1.317e-01s), Max Depth: 1.1016801529m, Max Vel: 9.9999999990m/s, Area: 439000.0m², Vol: 65361.9m³

Step 16900/29999, Sim Time: 3441.304s (+1.316e-01s), Max Depth: 1.1058837367m, Max Vel: 9.9999999990m/s, Area: 438500.0m², Vol: 65473.7m³

Step 17000/29999, Sim Time: 3454.466s (+1.316e-01s), Max Depth: 1.1089117566m, Max Vel: 9.9999999990m/s, Area: 437000.0m², Vol: 65586.4m³

Step 17100/29999, Sim Time: 3467.625s (+1.316e-01s), Max Depth: 1.1101038785m, Max Vel: 9.9999999990m/s, Area: 436075.0m², Vol: 65700.1m³

Step 17200/29999, Sim Time: 3480.781s (+1.315e-01s), Max Depth: 1.1127791753m, Max Vel: 9.9999999990m/s, Area: 436150.0m², Vol: 65812.2m³

Step 17300/29999, Sim Time: 3493.932s (+1.315e-01s), Max Depth: 1.1162652662m, Max Vel: 9.9999999990m/s, Area: 435175.0m², Vol: 65922.4m³

Step 17400/29999, Sim Time: 3507.079s (+1.314e-01s), Max Depth: 1.1195214989m, Max Vel: 9.9999999990m/s, Area: 435525.0m², Vol: 66032.3m³

Step 17500/29999, Sim Time: 3520.222s (+1.314e-01s), Max Depth: 1.1203978333m, Max Vel: 9.9999999990m/s, Area: 434800.0m², Vol: 66140.2m³

Step 17600/29999, Sim Time: 3533.364s (+1.314e-01s), Max Depth: 1.1215727549m, Max Vel: 9.9999999990m/s, Area: 433650.0m², Vol: 66244.7m³

Step 17700/29999, Sim Time: 3546.503s (+1.314e-01s), Max Depth: 1.1237551290m, Max Vel: 9.9999999990m/s, Area: 431400.0m², Vol: 66344.8m³

Step 17800/29999, Sim Time: 3559.641s (+1.314e-01s), Max Depth: 1.1246400519m, Max Vel: 9.9999999990m/s, Area: 432325.0m², Vol: 66445.3m³

Step 17900/29999, Sim Time: 3572.777s (+1.314e-01s), Max Depth: 1.1257496737m, Max Vel: 9.9999999990m/s, Area: 431550.0m², Vol: 66542.3m³

Step 18000/29999, Sim Time: 3585.911s (+1.313e-01s), Max Depth: 1.1260047594m, Max Vel: 9.9999999990m/s, Area: 431025.0m², Vol: 66635.0m³

Step 18100/29999, Sim Time: 3599.046s (+1.314e-01s), Max Depth: 1.1254715267m, Max Vel: 9.9999999990m/s, Area: 430575.0m², Vol: 66722.7m³

Step 18200/29999, Sim Time: 3612.182s (+1.314e-01s), Max Depth: 1.1252064095m, Max Vel: 9.9999999990m/s, Area: 428050.0m², Vol: 66806.6m³

Step 18300/29999, Sim Time: 3625.318s (+1.314e-01s), Max Depth: 1.1249394509m, Max Vel: 9.9999999990m/s, Area: 428275.0m², Vol: 66886.1m³

Step 18400/29999, Sim Time: 3638.454s (+1.314e-01s), Max Depth: 1.1244487968m, Max Vel: 9.9999999990m/s, Area: 427600.0m², Vol: 66960.0m³

Step 18500/29999, Sim Time: 3651.591s (+1.314e-01s), Max Depth: 1.1241348254m, Max Vel: 9.9999999990m/s, Area: 425425.0m², Vol: 67029.5m³

Step 18600/29999, Sim Time: 3664.729s (+1.314e-01s), Max Depth: 1.1244244430m, Max Vel: 9.9999999990m/s, Area: 426500.0m², Vol: 67095.9m³

Step 18700/29999, Sim Time: 3677.865s (+1.314e-01s), Max Depth: 1.1246171510m, Max Vel: 9.9999999990m/s, Area: 424650.0m², Vol: 67159.2m³

Step 18800/29999, Sim Time: 3691.002s (+1.314e-01s), Max Depth: 1.1246263331m, Max Vel: 9.9999999990m/s, Area: 424175.0m², Vol: 67219.3m³

Step 18900/29999, Sim Time: 3704.139s (+1.314e-01s), Max Depth: 1.1241259484m, Max Vel: 9.9999999990m/s, Area: 423600.0m², Vol: 67277.3m³

Step 19000/29999, Sim Time: 3717.277s (+1.314e-01s), Max Depth: 1.1238138127m, Max Vel: 9.9999999990m/s, Area: 424525.0m², Vol: 67331.8m³

Step 19100/29999, Sim Time: 3730.414s (+1.314e-01s), Max Depth: 1.1240706987m, Max Vel: 9.9999999990m/s, Area: 423525.0m², Vol: 67383.9m³

Step 19200/29999, Sim Time: 3743.551s (+1.314e-01s), Max Depth: 1.1246079196m, Max Vel: 9.9999999990m/s, Area: 421625.0m², Vol: 67434.6m³

Step 19300/29999, Sim Time: 3756.688s (+1.314e-01s), Max Depth: 1.1249951908m, Max Vel: 9.9999999990m/s, Area: 421575.0m², Vol: 67484.7m³

Step 19400/29999, Sim Time: 3769.824s (+1.314e-01s), Max Depth: 1.1250889356m, Max Vel: 9.9999999990m/s, Area: 421150.0m², Vol: 67534.8m³

Step 19500/29999, Sim Time: 3782.960s (+1.314e-01s), Max Depth: 1.1251099160m, Max Vel: 9.9999999990m/s, Area: 421600.0m², Vol: 67583.0m³

Step 19600/29999, Sim Time: 3796.095s (+1.314e-01s), Max Depth: 1.1253478924m, Max Vel: 9.9999999990m/s, Area: 420375.0m², Vol: 67629.5m³

Step 19700/29999, Sim Time: 3809.231s (+1.314e-01s), Max Depth: 1.1255533766m, Max Vel: 9.9999999990m/s, Area: 420525.0m², Vol: 67675.0m³

Step 19800/29999, Sim Time: 3822.366s (+1.314e-01s), Max Depth: 1.1256301720m, Max Vel: 9.9999999998m/s, Area: 418150.0m², Vol: 67720.4m³

Step 19900/29999, Sim Time: 3835.501s (+1.313e-01s), Max Depth: 1.1260352656m, Max Vel: 9.9999999990m/s, Area: 418975.0m², Vol: 67765.1m³

Step 20000/29999, Sim Time: 3848.635s (+1.313e-01s), Max Depth: 1.1265975309m, Max Vel: 9.9999999990m/s, Area: 419550.0m², Vol: 67807.8m³

Step 20100/29999, Sim Time: 3861.769s (+1.313e-01s), Max Depth: 1.1266947575m, Max Vel: 9.9999999990m/s, Area: 418450.0m², Vol: 67849.0m³

Step 20200/29999, Sim Time: 3874.902s (+1.313e-01s), Max Depth: 1.1267592109m, Max Vel: 9.9999999990m/s, Area: 418375.0m², Vol: 67888.6m³

Step 20300/29999, Sim Time: 3888.036s (+1.313e-01s), Max Depth: 1.1271441745m, Max Vel: 9.9999999990m/s, Area: 418100.0m², Vol: 67927.1m³

Step 20400/29999, Sim Time: 3901.168s (+1.313e-01s), Max Depth: 1.1276217774m, Max Vel: 9.9999999990m/s, Area: 417775.0m², Vol: 67965.9m³

Step 20500/29999, Sim Time: 3914.300s (+1.313e-01s), Max Depth: 1.1281043324m, Max Vel: 9.9999999990m/s, Area: 416675.0m², Vol: 68005.2m³

Step 20600/29999, Sim Time: 3927.431s (+1.313e-01s), Max Depth: 1.1283852743m, Max Vel: 9.9999999990m/s, Area: 416000.0m², Vol: 68043.9m³

Step 20700/29999, Sim Time: 3940.562s (+1.313e-01s), Max Depth: 1.1286011000m, Max Vel: 9.9999999990m/s, Area: 415400.0m², Vol: 68080.8m³

Step 20800/29999, Sim Time: 3953.693s (+1.313e-01s), Max Depth: 1.1289964005m, Max Vel: 9.9999999990m/s, Area: 414750.0m², Vol: 68117.1m³

Step 20900/29999, Sim Time: 3966.823s (+1.313e-01s), Max Depth: 1.1294937107m, Max Vel: 9.9999999990m/s, Area: 413900.0m², Vol: 68153.7m³

Step 21000/29999, Sim Time: 3979.952s (+1.313e-01s), Max Depth: 1.1296666124m, Max Vel: 9.9999999990m/s, Area: 413775.0m², Vol: 68190.4m³

Step 21100/29999, Sim Time: 3993.081s (+1.313e-01s), Max Depth: 1.1300788404m, Max Vel: 9.9999999990m/s, Area: 412300.0m², Vol: 68226.4m³

Step 21200/29999, Sim Time: 4006.210s (+1.313e-01s), Max Depth: 1.1306608032m, Max Vel: 9.9999999990m/s, Area: 413425.0m², Vol: 68262.1m³

Step 21300/29999, Sim Time: 4019.337s (+1.313e-01s), Max Depth: 1.1308314650m, Max Vel: 9.9999999990m/s, Area: 411575.0m², Vol: 68298.2m³

Step 21400/29999, Sim Time: 4032.465s (+1.313e-01s), Max Depth: 1.1311212324m, Max Vel: 9.9999999990m/s, Area: 411150.0m², Vol: 68334.0m³

Step 21500/29999, Sim Time: 4045.592s (+1.313e-01s), Max Depth: 1.1313083440m, Max Vel: 9.9999999990m/s, Area: 409250.0m², Vol: 68370.2m³

Step 21600/29999, Sim Time: 4058.718s (+1.313e-01s), Max Depth: 1.1315378570m, Max Vel: 9.9999999990m/s, Area: 410100.0m², Vol: 68405.1m³

Step 21700/29999, Sim Time: 4071.845s (+1.313e-01s), Max Depth: 1.1317853399m, Max Vel: 9.9999999990m/s, Area: 409550.0m², Vol: 68439.8m³

Step 21800/29999, Sim Time: 4084.971s (+1.313e-01s), Max Depth: 1.1319975621m, Max Vel: 9.9999999990m/s, Area: 407925.0m², Vol: 68476.3m³

Step 21900/29999, Sim Time: 4098.097s (+1.313e-01s), Max Depth: 1.1323105923m, Max Vel: 9.9999999990m/s, Area: 408825.0m², Vol: 68513.3m³

Step 22000/29999, Sim Time: 4111.222s (+1.313e-01s), Max Depth: 1.1324448992m, Max Vel: 9.9999999990m/s, Area: 408950.0m², Vol: 68549.7m³

Step 22100/29999, Sim Time: 4124.347s (+1.312e-01s), Max Depth: 1.1327652581m, Max Vel: 9.9999999990m/s, Area: 407350.0m², Vol: 68586.3m³

Step 22200/29999, Sim Time: 4137.472s (+1.312e-01s), Max Depth: 1.1331275079m, Max Vel: 9.9999999990m/s, Area: 405250.0m², Vol: 68625.1m³

Step 22300/29999, Sim Time: 4150.596s (+1.312e-01s), Max Depth: 1.1335530929m, Max Vel: 9.9999999990m/s, Area: 405950.0m², Vol: 68665.4m³

Step 22400/29999, Sim Time: 4163.719s (+1.312e-01s), Max Depth: 1.1338599161m, Max Vel: 9.9999999990m/s, Area: 406375.0m², Vol: 68706.6m³

Step 22500/29999, Sim Time: 4176.842s (+1.312e-01s), Max Depth: 1.1344121926m, Max Vel: 9.9999999990m/s, Area: 404225.0m², Vol: 68752.4m³

Step 22600/29999, Sim Time: 4189.964s (+1.312e-01s), Max Depth: 1.1348073895m, Max Vel: 9.9999999990m/s, Area: 403975.0m², Vol: 68798.9m³

Step 22700/29999, Sim Time: 4203.086s (+1.312e-01s), Max Depth: 1.1351707853m, Max Vel: 9.9999999990m/s, Area: 404225.0m², Vol: 68848.3m³

Step 22800/29999, Sim Time: 4216.207s (+1.312e-01s), Max Depth: 1.1356030127m, Max Vel: 9.9999999990m/s, Area: 402450.0m², Vol: 68901.8m³

Step 22900/29999, Sim Time: 4229.327s (+1.312e-01s), Max Depth: 1.1358134800m, Max Vel: 9.9999999990m/s, Area: 403075.0m², Vol: 68954.3m³

Step 23000/29999, Sim Time: 4242.448s (+1.312e-01s), Max Depth: 1.1356439307m, Max Vel: 9.9999999990m/s, Area: 402475.0m², Vol: 69005.0m³

Step 23100/29999, Sim Time: 4255.568s (+1.312e-01s), Max Depth: 1.1354331629m, Max Vel: 9.9999999990m/s, Area: 401750.0m², Vol: 69055.1m³

Step 23200/29999, Sim Time: 4268.689s (+1.312e-01s), Max Depth: 1.1353094899m, Max Vel: 9.9999999990m/s, Area: 402725.0m², Vol: 69103.6m³

Step 23300/29999, Sim Time: 4281.811s (+1.312e-01s), Max Depth: 1.1352408338m, Max Vel: 9.9999999990m/s, Area: 401825.0m², Vol: 69150.1m³

Step 23400/29999, Sim Time: 4294.932s (+1.312e-01s), Max Depth: 1.1353096422m, Max Vel: 9.9999999990m/s, Area: 401275.0m², Vol: 69194.8m³

Step 23500/29999, Sim Time: 4308.053s (+1.312e-01s), Max Depth: 1.1350877804m, Max Vel: 9.9999999990m/s, Area: 400925.0m², Vol: 69238.7m³

Step 23600/29999, Sim Time: 4321.174s (+1.312e-01s), Max Depth: 1.1352965443m, Max Vel: 9.9999999990m/s, Area: 399850.0m², Vol: 69281.1m³

Step 23700/29999, Sim Time: 4334.295s (+1.312e-01s), Max Depth: 1.1355463206m, Max Vel: 9.9999999990m/s, Area: 400300.0m², Vol: 69322.6m³

Step 23800/29999, Sim Time: 4347.416s (+1.312e-01s), Max Depth: 1.1361097394m, Max Vel: 9.9999999990m/s, Area: 399725.0m², Vol: 69363.2m³

Step 23900/29999, Sim Time: 4360.535s (+1.312e-01s), Max Depth: 1.1368887955m, Max Vel: 9.9999999990m/s, Area: 399500.0m², Vol: 69404.6m³

Step 24000/29999, Sim Time: 4373.654s (+1.312e-01s), Max Depth: 1.1373995057m, Max Vel: 9.9999999990m/s, Area: 399075.0m², Vol: 69447.1m³

Step 24100/29999, Sim Time: 4386.771s (+1.312e-01s), Max Depth: 1.1382369323m, Max Vel: 9.9999999990m/s, Area: 399525.0m², Vol: 69490.1m³

Step 24200/29999, Sim Time: 4399.887s (+1.312e-01s), Max Depth: 1.1391956685m, Max Vel: 9.9999999990m/s, Area: 399325.0m², Vol: 69533.4m³

Step 24300/29999, Sim Time: 4413.002s (+1.311e-01s), Max Depth: 1.1400385414m, Max Vel: 9.9999999990m/s, Area: 399075.0m², Vol: 69577.9m³

Step 24400/29999, Sim Time: 4426.116s (+1.311e-01s), Max Depth: 1.1411867854m, Max Vel: 9.9999999990m/s, Area: 396900.0m², Vol: 69624.5m³

Step 24500/29999, Sim Time: 4439.228s (+1.311e-01s), Max Depth: 1.1425167781m, Max Vel: 9.9999999990m/s, Area: 397925.0m², Vol: 69673.1m³

Step 24600/29999, Sim Time: 4452.338s (+1.311e-01s), Max Depth: 1.1434998407m, Max Vel: 9.9999999990m/s, Area: 397500.0m², Vol: 69722.4m³

Step 24700/29999, Sim Time: 4465.446s (+1.311e-01s), Max Depth: 1.1449117007m, Max Vel: 9.9999999990m/s, Area: 396700.0m², Vol: 69772.7m³

Step 24800/29999, Sim Time: 4478.552s (+1.310e-01s), Max Depth: 1.1468823928m, Max Vel: 9.9999999990m/s, Area: 396825.0m², Vol: 69826.0m³

Step 24900/29999, Sim Time: 4491.655s (+1.310e-01s), Max Depth: 1.1491188616m, Max Vel: 9.9999999990m/s, Area: 397100.0m², Vol: 69883.3m³

Step 25000/29999, Sim Time: 4504.754s (+1.310e-01s), Max Depth: 1.1513280189m, Max Vel: 9.9999999990m/s, Area: 395550.0m², Vol: 69945.3m³

Step 25100/29999, Sim Time: 4517.851s (+1.309e-01s), Max Depth: 1.1537631429m, Max Vel: 9.9999999990m/s, Area: 395675.0m², Vol: 70011.1m³

Step 25200/29999, Sim Time: 4530.943s (+1.309e-01s), Max Depth: 1.1568279562m, Max Vel: 9.9999999990m/s, Area: 395125.0m², Vol: 70084.6m³

Step 25300/29999, Sim Time: 4544.031s (+1.309e-01s), Max Depth: 1.1603704407m, Max Vel: 9.9999999990m/s, Area: 395325.0m², Vol: 70163.7m³

Step 25400/29999, Sim Time: 4557.113s (+1.308e-01s), Max Depth: 1.1645966435m, Max Vel: 9.9999999990m/s, Area: 393700.0m², Vol: 70251.7m³

Step 25500/29999, Sim Time: 4570.189s (+1.307e-01s), Max Depth: 1.1693212747m, Max Vel: 9.9999999990m/s, Area: 394075.0m², Vol: 70351.4m³

Step 25600/29999, Sim Time: 4583.258s (+1.306e-01s), Max Depth: 1.1751013119m, Max Vel: 9.9999999990m/s, Area: 393900.0m², Vol: 70464.6m³

Step 25700/29999, Sim Time: 4596.317s (+1.305e-01s), Max Depth: 1.1823523279m, Max Vel: 9.9999999990m/s, Area: 393875.0m², Vol: 70595.1m³

Step 25800/29999, Sim Time: 4609.366s (+1.304e-01s), Max Depth: 1.1909062915m, Max Vel: 9.9999999990m/s, Area: 393100.0m², Vol: 70748.8m³

Step 25900/29999, Sim Time: 4622.402s (+1.303e-01s), Max Depth: 1.1995902418m, Max Vel: 9.9999999990m/s, Area: 392600.0m², Vol: 70928.4m³

Step 26000/29999, Sim Time: 4635.426s (+1.302e-01s), Max Depth: 1.2070357566m, Max Vel: 9.9999999990m/s, Area: 391525.0m², Vol: 71132.3m³

Step 26100/29999, Sim Time: 4648.443s (+1.301e-01s), Max Depth: 1.2122292717m, Max Vel: 9.9999999990m/s, Area: 390650.0m², Vol: 71352.9m³

Step 26200/29999, Sim Time: 4661.452s (+1.301e-01s), Max Depth: 1.2170533466m, Max Vel: 9.9999999990m/s, Area: 390325.0m², Vol: 71589.1m³

Step 26300/29999, Sim Time: 4674.457s (+1.301e-01s), Max Depth: 1.2174862378m, Max Vel: 9.9999999990m/s, Area: 391575.0m², Vol: 71833.7m³

Step 26400/29999, Sim Time: 4687.461s (+1.300e-01s), Max Depth: 1.2204088857m, Max Vel: 9.9999999990m/s, Area: 389325.0m², Vol: 72072.6m³

Step 26500/29999, Sim Time: 4700.461s (+1.300e-01s), Max Depth: 1.2215860213m, Max Vel: 9.9999999990m/s, Area: 390525.0m², Vol: 72297.4m³

Step 26600/29999, Sim Time: 4713.459s (+1.300e-01s), Max Depth: 1.2246860832m, Max Vel: 9.9999999990m/s, Area: 390425.0m², Vol: 72508.1m³

Step 26700/29999, Sim Time: 4726.451s (+1.299e-01s), Max Depth: 1.2298921198m, Max Vel: 9.9999999990m/s, Area: 390575.0m², Vol: 72709.3m³

Step 26800/29999, Sim Time: 4739.438s (+1.298e-01s), Max Depth: 1.2328742028m, Max Vel: 9.9999999990m/s, Area: 390600.0m², Vol: 72907.7m³

Step 26900/29999, Sim Time: 4752.419s (+1.298e-01s), Max Depth: 1.2372797874m, Max Vel: 9.9999999990m/s, Area: 388775.0m², Vol: 73106.8m³

Step 27000/29999, Sim Time: 4765.394s (+1.297e-01s), Max Depth: 1.2428062571m, Max Vel: 9.9999999990m/s, Area: 388700.0m², Vol: 73303.4m³

Step 27100/29999, Sim Time: 4778.364s (+1.297e-01s), Max Depth: 1.2437253126m, Max Vel: 9.9999999990m/s, Area: 390675.0m², Vol: 73489.5m³

Step 27200/29999, Sim Time: 4791.332s (+1.297e-01s), Max Depth: 1.2464014416m, Max Vel: 9.9999999990m/s, Area: 389200.0m², Vol: 73664.1m³

Step 27300/29999, Sim Time: 4804.295s (+1.296e-01s), Max Depth: 1.2513682658m, Max Vel: 9.9999999990m/s, Area: 389325.0m², Vol: 73836.3m³

Step 27400/29999, Sim Time: 4817.252s (+1.295e-01s), Max Depth: 1.2549133414m, Max Vel: 9.9999999990m/s, Area: 389100.0m², Vol: 74004.5m³

Step 27500/29999, Sim Time: 4830.204s (+1.295e-01s), Max Depth: 1.2579437507m, Max Vel: 9.9999999990m/s, Area: 389500.0m², Vol: 74167.8m³

Step 27600/29999, Sim Time: 4843.152s (+1.294e-01s), Max Depth: 1.2632687860m, Max Vel: 9.9999999990m/s, Area: 389700.0m², Vol: 74331.3m³

Step 27700/29999, Sim Time: 4856.091s (+1.294e-01s), Max Depth: 1.2689125422m, Max Vel: 9.9999999990m/s, Area: 388325.0m², Vol: 74499.7m³

Step 27800/29999, Sim Time: 4869.025s (+1.293e-01s), Max Depth: 1.2729305102m, Max Vel: 9.9999999990m/s, Area: 387950.0m², Vol: 74664.4m³

Step 27900/29999, Sim Time: 4881.952s (+1.292e-01s), Max Depth: 1.2790717446m, Max Vel: 9.9999999990m/s, Area: 387300.0m², Vol: 74823.7m³

Step 28000/29999, Sim Time: 4894.872s (+1.292e-01s), Max Depth: 1.2800771406m, Max Vel: 9.9999999990m/s, Area: 387600.0m², Vol: 74977.2m³

Step 28100/29999, Sim Time: 4907.794s (+1.292e-01s), Max Depth: 1.2793085428m, Max Vel: 9.9999999990m/s, Area: 386550.0m², Vol: 75117.3m³

Step 28200/29999, Sim Time: 4920.716s (+1.292e-01s), Max Depth: 1.2810259725m, Max Vel: 9.9999999990m/s, Area: 386525.0m², Vol: 75247.3m³

Step 28300/29999, Sim Time: 4933.634s (+1.292e-01s), Max Depth: 1.2830835489m, Max Vel: 9.9999999990m/s, Area: 386000.0m², Vol: 75372.6m³

Step 28400/29999, Sim Time: 4946.550s (+1.291e-01s), Max Depth: 1.2848384359m, Max Vel: 9.9999999990m/s, Area: 385600.0m², Vol: 75492.3m³

Step 28500/29999, Sim Time: 4959.466s (+1.292e-01s), Max Depth: 1.2828395739m, Max Vel: 9.9999999990m/s, Area: 385825.0m², Vol: 75599.2m³

Step 28600/29999, Sim Time: 4972.386s (+1.292e-01s), Max Depth: 1.2793893246m, Max Vel: 9.9999999990m/s, Area: 384725.0m², Vol: 75685.8m³

Step 28700/29999, Sim Time: 4985.309s (+1.293e-01s), Max Depth: 1.2771146256m, Max Vel: 9.9999999990m/s, Area: 385125.0m², Vol: 75756.0m³

Step 28800/29999, Sim Time: 4998.235s (+1.293e-01s), Max Depth: 1.2762352746m, Max Vel: 9.9999999990m/s, Area: 384450.0m², Vol: 75816.7m³

Step 28900/29999, Sim Time: 5011.162s (+1.293e-01s), Max Depth: 1.2743471242m, Max Vel: 9.9999999990m/s, Area: 385400.0m², Vol: 75872.5m³

Step 29000/29999, Sim Time: 5024.093s (+1.293e-01s), Max Depth: 1.2724277447m, Max Vel: 9.9999999990m/s, Area: 386125.0m², Vol: 75925.4m³

Step 29100/29999, Sim Time: 5037.024s (+1.293e-01s), Max Depth: 1.2717936789m, Max Vel: 9.9999999990m/s, Area: 383975.0m², Vol: 75970.4m³

Step 29200/29999, Sim Time: 5049.957s (+1.293e-01s), Max Depth: 1.2705748527m, Max Vel: 9.9999999990m/s, Area: 383750.0m², Vol: 76003.4m³

Step 29300/29999, Sim Time: 5062.892s (+1.293e-01s), Max Depth: 1.2697806353m, Max Vel: 9.9999999990m/s, Area: 382975.0m², Vol: 76025.8m³

Step 29400/29999, Sim Time: 5075.827s (+1.294e-01s), Max Depth: 1.2678529090m, Max Vel: 9.9999999990m/s, Area: 383250.0m², Vol: 76044.6m³

Step 29500/29999, Sim Time: 5088.766s (+1.294e-01s), Max Depth: 1.2658942819m, Max Vel: 9.9999999990m/s, Area: 382775.0m², Vol: 76064.9m³

Step 29600/29999, Sim Time: 5101.707s (+1.294e-01s), Max Depth: 1.2653707513m, Max Vel: 9.9999999990m/s, Area: 384475.0m², Vol: 76083.9m³

Step 29700/29999, Sim Time: 5114.646s (+1.294e-01s), Max Depth: 1.2668484457m, Max Vel: 9.9999999990m/s, Area: 383425.0m², Vol: 76098.4m³

Step 29800/29999, Sim Time: 5127.585s (+1.294e-01s), Max Depth: 1.2657919276m, Max Vel: 9.9999999990m/s, Area: 382875.0m², Vol: 76108.0m³

Step 29900/29999, Sim Time: 5140.527s (+1.294e-01s), Max Depth: 1.2638761956m, Max Vel: 9.9999999990m/s, Area: 382550.0m², Vol: 76113.3m³

Step 29999/29999, Sim Time: 5153.341s (+1.294e-01s), Max Depth: 1.2633460371m, Max Vel: 9.9999999990m/s, Area: 382225.0m², Vol: 76117.1m³

Simulation finished 30000 steps in 240.03 seconds (wall clock).

Final Maximum Flood Extent Area: 994150.00 m²

Peak Recorded Water Depth Anywhere: 1.285 m

Phase 2 max depth: 1.263 m, steady state max depth: 0.734 m, rate of increase: 0.000103 m/s

--- Visualizing Combined River (P1) + WSE Contour Breach (P2) Results ---

Using DEM contour thresholds for WSE viz: [np.float64(19.998315827761544), np.float64(20.565404887957524), np.float64(21.1324939481535), np.float64(21.699583008349478), np.float64(22.266672068545454), np.float64(22.833761128741433), np.float64(23.400850188937408), np.float64(23.967939249133387), np.float64(24.535028309329363), np.float64(25.10211736952534)]

Saving animation to result\_rain30.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_rain30 \_final\_frame.png

Visualization finished.

--- Two-Phase River + WSE Contour Breach Test Finished ---