python flood\_simulation\_driver.py --run-twophase-test --phase1-steps 20000 --phase2-steps 30000 --rain-rate 0 --output-freq 100 -o result\_source2\_5\_rain0.mp4 --save --source-row 50 --source-col 1 --source-rate 2.5

--- 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 169.59 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) ---

No rainfall for Phase 2.

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337670646m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39719.9m³

Step 100/29999, Sim Time: 48.379s (+3.774e-01s), Max Depth: 1.3502570616m, Max Vel: 1.0155659549m/s, Area: 130875.0m², Vol: 39760.1m³

Step 200/29999, Sim Time: 81.335s (+2.963e-01s), Max Depth: 2.1415198578m, Max Vel: 1.3330930559m/s, Area: 130875.0m², Vol: 39788.1m³

Step 300/29999, Sim Time: 101.619s (+1.159e-01s), Max Depth: 2.6500850434m, Max Vel: 9.9999999999m/s, Area: 130900.0m², Vol: 39807.4m³

Step 400/29999, Sim Time: 113.070s (+1.132e-01s), Max Depth: 3.0422536404m, Max Vel: 9.9999999995m/s, Area: 130900.0m², Vol: 39822.2m³

Step 500/29999, Sim Time: 124.305s (+1.118e-01s), Max Depth: 3.2588568071m, Max Vel: 9.9999999990m/s, Area: 130900.0m², Vol: 39834.1m³

Step 600/29999, Sim Time: 144.723s (+2.228e-01s), Max Depth: 3.1720559025m, Max Vel: 2.2731851597m/s, Area: 130950.0m², Vol: 39855.8m³

Step 700/29999, Sim Time: 168.023s (+2.321e-01s), Max Depth: 2.8448730875m, Max Vel: 2.2575568930m/s, Area: 131075.0m², Vol: 39880.2m³

Step 800/29999, Sim Time: 185.324s (+2.733e-01s), Max Depth: 2.3397687019m, Max Vel: 1.6560244606m/s, Area: 131100.0m², Vol: 39902.0m³

Step 900/29999, Sim Time: 214.797s (+3.350e-01s), Max Depth: 1.5860772854m, Max Vel: 1.2710305528m/s, Area: 131175.0m², Vol: 39937.1m³

Step 1000/29999, Sim Time: 250.412s (+3.416e-01s), Max Depth: 1.3358123081m, Max Vel: 5.4466955341m/s, Area: 131375.0m², Vol: 39981.9m³

Step 1100/29999, Sim Time: 276.383s (+1.284e-01s), Max Depth: 1.3420980205m, Max Vel: 9.9999999990m/s, Area: 131450.0m², Vol: 40014.8m³

Step 1200/29999, Sim Time: 296.450s (+1.284e-01s), Max Depth: 1.3470072999m, Max Vel: 9.9999999998m/s, Area: 131650.0m², Vol: 40050.4m³

Step 1300/29999, Sim Time: 333.654s (+3.847e-01s), Max Depth: 1.3312653222m, Max Vel: 0.9368555228m/s, Area: 131850.0m², Vol: 40101.4m³

Step 1400/29999, Sim Time: 356.037s (+1.284e-01s), Max Depth: 1.3392814364m, Max Vel: 9.9999999991m/s, Area: 132050.0m², Vol: 40139.9m³

Step 1500/29999, Sim Time: 375.930s (+1.283e-01s), Max Depth: 1.3523012071m, Max Vel: 9.9999999991m/s, Area: 132300.0m², Vol: 40178.4m³

Step 1600/29999, Sim Time: 404.726s (+3.576e-01s), Max Depth: 1.3336856249m, Max Vel: 1.2725069542m/s, Area: 132650.0m², Vol: 40223.5m³

Step 1700/29999, Sim Time: 440.592s (+3.602e-01s), Max Depth: 1.3174992233m, Max Vel: 1.2630293617m/s, Area: 132900.0m², Vol: 40265.8m³

Step 1800/29999, Sim Time: 471.643s (+1.286e-01s), Max Depth: 1.3233607412m, Max Vel: 9.9999999991m/s, Area: 133175.0m², Vol: 40301.6m³

Step 1900/29999, Sim Time: 503.205s (+3.620e-01s), Max Depth: 1.3034280841m, Max Vel: 1.2621118393m/s, Area: 133250.0m², Vol: 40338.2m³

Step 2000/29999, Sim Time: 536.050s (+1.289e-01s), Max Depth: 1.3057338659m, Max Vel: 9.9999999991m/s, Area: 133250.0m², Vol: 40371.9m³

Step 2100/29999, Sim Time: 563.628s (+3.637e-01s), Max Depth: 1.2754831127m, Max Vel: 1.2762537812m/s, Area: 133225.0m², Vol: 40406.8m³

Step 2200/29999, Sim Time: 600.017s (+3.651e-01s), Max Depth: 1.2626797447m, Max Vel: 1.2733521471m/s, Area: 133525.0m², Vol: 40448.5m³

Step 2300/29999, Sim Time: 636.745s (+3.700e-01s), Max Depth: 1.2156545696m, Max Vel: 1.2754579030m/s, Area: 133725.0m², Vol: 40493.3m³

Step 2400/29999, Sim Time: 674.143s (+3.772e-01s), Max Depth: 1.1753293347m, Max Vel: 1.2431777146m/s, Area: 133950.0m², Vol: 40539.6m³

Step 2500/29999, Sim Time: 712.101s (+3.819e-01s), Max Depth: 1.1524982652m, Max Vel: 1.2193955922m/s, Area: 134100.0m², Vol: 40587.9m³

Step 2600/29999, Sim Time: 750.500s (+3.861e-01s), Max Depth: 1.1251204781m, Max Vel: 1.2089587398m/s, Area: 134225.0m², Vol: 40638.2m³

Step 2700/29999, Sim Time: 789.399s (+3.918e-01s), Max Depth: 1.0914993427m, Max Vel: 1.1932033715m/s, Area: 134375.0m², Vol: 40686.8m³

Step 2800/29999, Sim Time: 829.001s (+3.995e-01s), Max Depth: 1.0556071961m, Max Vel: 1.1614829003m/s, Area: 134600.0m², Vol: 40735.6m³

Step 2900/29999, Sim Time: 869.239s (+4.052e-01s), Max Depth: 1.0288160017m, Max Vel: 1.1410035208m/s, Area: 134800.0m², Vol: 40786.7m³

Step 3000/29999, Sim Time: 909.961s (+4.098e-01s), Max Depth: 1.0085377478m, Max Vel: 1.1239279008m/s, Area: 135000.0m², Vol: 40840.1m³

Step 3100/29999, Sim Time: 951.168s (+4.140e-01s), Max Depth: 0.9903848369m, Max Vel: 1.1095795021m/s, Area: 135125.0m², Vol: 40896.6m³

Step 3200/29999, Sim Time: 992.793s (+4.178e-01s), Max Depth: 0.9740320811m, Max Vel: 1.0976310145m/s, Area: 135275.0m², Vol: 40955.1m³

Step 3300/29999, Sim Time: 1034.761s (+4.215e-01s), Max Depth: 0.9597639524m, Max Vel: 1.0834236520m/s, Area: 135425.0m², Vol: 41014.8m³

Step 3400/29999, Sim Time: 1077.052s (+4.247e-01s), Max Depth: 0.9480325563m, Max Vel: 1.0702818931m/s, Area: 135600.0m², Vol: 41076.1m³

Step 3500/29999, Sim Time: 1119.641s (+4.272e-01s), Max Depth: 0.9387338547m, Max Vel: 1.0614237952m/s, Area: 135750.0m², Vol: 41139.5m³

Step 3600/29999, Sim Time: 1162.495s (+4.296e-01s), Max Depth: 0.9287019313m, Max Vel: 1.0552438915m/s, Area: 135875.0m², Vol: 41204.4m³

Step 3700/29999, Sim Time: 1205.604s (+4.322e-01s), Max Depth: 0.9188407699m, Max Vel: 1.0463218233m/s, Area: 136100.0m², Vol: 41271.1m³

Step 3800/29999, Sim Time: 1248.956s (+4.349e-01s), Max Depth: 0.9099041887m, Max Vel: 1.0364049015m/s, Area: 136175.0m², Vol: 41339.0m³

Step 3900/29999, Sim Time: 1292.536s (+4.371e-01s), Max Depth: 0.9029261035m, Max Vel: 1.0275994931m/s, Area: 136300.0m², Vol: 41407.5m³

Step 4000/29999, Sim Time: 1336.336s (+4.388e-01s), Max Depth: 0.8965839842m, Max Vel: 1.0219433527m/s, Area: 136525.0m², Vol: 41476.4m³

Step 4100/29999, Sim Time: 1380.330s (+4.406e-01s), Max Depth: 0.8902023830m, Max Vel: 1.0162565298m/s, Area: 136650.0m², Vol: 41546.1m³

Step 4200/29999, Sim Time: 1424.479s (+4.423e-01s), Max Depth: 0.8851735423m, Max Vel: 1.0098479972m/s, Area: 136750.0m², Vol: 41617.0m³

Step 4300/29999, Sim Time: 1468.757s (+4.435e-01s), Max Depth: 0.8817422439m, Max Vel: 1.0048645126m/s, Area: 136950.0m², Vol: 41689.1m³

Step 4400/29999, Sim Time: 1513.147s (+4.443e-01s), Max Depth: 0.8793615887m, Max Vel: 1.0019736030m/s, Area: 137275.0m², Vol: 41763.8m³

Step 4500/29999, Sim Time: 1557.624s (+4.450e-01s), Max Depth: 0.8766760206m, Max Vel: 0.9996872088m/s, Area: 137400.0m², Vol: 41841.0m³

Step 4600/29999, Sim Time: 1602.159s (+4.456e-01s), Max Depth: 0.8750439295m, Max Vel: 0.9970087304m/s, Area: 137775.0m², Vol: 41920.6m³

Step 4700/29999, Sim Time: 1646.736s (+4.460e-01s), Max Depth: 0.8741344692m, Max Vel: 0.9953208621m/s, Area: 137900.0m², Vol: 42003.3m³

Step 4800/29999, Sim Time: 1691.343s (+4.461e-01s), Max Depth: 0.8739236836m, Max Vel: 0.9947478452m/s, Area: 138000.0m², Vol: 42088.0m³

Step 4900/29999, Sim Time: 1735.967s (+4.463e-01s), Max Depth: 0.8733201341m, Max Vel: 0.9943140869m/s, Area: 138100.0m², Vol: 42173.6m³

Step 5000/29999, Sim Time: 1780.602s (+4.464e-01s), Max Depth: 0.8730345775m, Max Vel: 0.9937013712m/s, Area: 138200.0m², Vol: 42258.9m³

Step 5100/29999, Sim Time: 1825.245s (+4.465e-01s), Max Depth: 0.8727198800m, Max Vel: 0.9932504966m/s, Area: 138425.0m², Vol: 42344.4m³

Step 5200/29999, Sim Time: 1869.900s (+4.466e-01s), Max Depth: 0.8725449200m, Max Vel: 0.9928889076m/s, Area: 138600.0m², Vol: 42430.4m³

Step 5300/29999, Sim Time: 1914.567s (+4.467e-01s), Max Depth: 0.8721228395m, Max Vel: 0.9925663708m/s, Area: 138725.0m², Vol: 42517.1m³

Step 5400/29999, Sim Time: 1959.246s (+4.469e-01s), Max Depth: 0.8716506469m, Max Vel: 0.9919181126m/s, Area: 138850.0m², Vol: 42605.1m³

Step 5500/29999, Sim Time: 2003.938s (+4.470e-01s), Max Depth: 0.8712694776m, Max Vel: 0.9912649388m/s, Area: 138950.0m², Vol: 42694.9m³

Step 5600/29999, Sim Time: 2048.647s (+4.472e-01s), Max Depth: 0.8708326556m, Max Vel: 0.9907242250m/s, Area: 139175.0m², Vol: 42786.6m³

Step 5700/29999, Sim Time: 2093.373s (+4.473e-01s), Max Depth: 0.8703283874m, Max Vel: 0.9902131771m/s, Area: 139425.0m², Vol: 42880.9m³

Step 5800/29999, Sim Time: 2138.117s (+4.475e-01s), Max Depth: 0.8696361152m, Max Vel: 0.9893683174m/s, Area: 139500.0m², Vol: 42977.3m³

Step 5900/29999, Sim Time: 2182.878s (+4.477e-01s), Max Depth: 0.8692174286m, Max Vel: 0.9885687790m/s, Area: 139800.0m², Vol: 43075.8m³

Step 6000/29999, Sim Time: 2227.659s (+4.479e-01s), Max Depth: 0.8686701986m, Max Vel: 0.9880168402m/s, Area: 139925.0m², Vol: 43176.7m³

Step 6100/29999, Sim Time: 2272.459s (+4.481e-01s), Max Depth: 0.8680376694m, Max Vel: 0.9873962746m/s, Area: 140025.0m², Vol: 43279.6m³

Step 6200/29999, Sim Time: 2317.277s (+4.483e-01s), Max Depth: 0.8674701910m, Max Vel: 0.9865530306m/s, Area: 140275.0m², Vol: 43385.2m³

Step 6300/29999, Sim Time: 2362.114s (+4.485e-01s), Max Depth: 0.8670129319m, Max Vel: 0.9857937633m/s, Area: 140475.0m², Vol: 43493.7m³

Step 6400/29999, Sim Time: 2406.968s (+4.486e-01s), Max Depth: 0.8665183686m, Max Vel: 0.9854013125m/s, Area: 140550.0m², Vol: 43605.1m³

Step 6500/29999, Sim Time: 2451.839s (+4.488e-01s), Max Depth: 0.8659892211m, Max Vel: 0.9848092926m/s, Area: 140600.0m², Vol: 43719.1m³

Step 6600/29999, Sim Time: 2496.722s (+4.489e-01s), Max Depth: 0.8656384832m, Max Vel: 0.9842271839m/s, Area: 140825.0m², Vol: 43836.3m³

Step 6700/29999, Sim Time: 2541.617s (+4.490e-01s), Max Depth: 0.8654746925m, Max Vel: 0.9838021747m/s, Area: 141075.0m², Vol: 43956.9m³

Step 6800/29999, Sim Time: 2586.520s (+4.490e-01s), Max Depth: 0.8652687260m, Max Vel: 0.9837146592m/s, Area: 141250.0m², Vol: 44081.0m³

Step 6900/29999, Sim Time: 2631.427s (+4.491e-01s), Max Depth: 0.8651506483m, Max Vel: 0.9835132834m/s, Area: 141300.0m², Vol: 44207.8m³

Step 7000/29999, Sim Time: 2676.335s (+4.491e-01s), Max Depth: 0.8652049288m, Max Vel: 0.9834708678m/s, Area: 141550.0m², Vol: 44337.7m³

Step 7100/29999, Sim Time: 2721.242s (+4.491e-01s), Max Depth: 0.8653255648m, Max Vel: 0.9835371188m/s, Area: 141725.0m², Vol: 44470.7m³

Step 7200/29999, Sim Time: 2766.146s (+4.490e-01s), Max Depth: 0.8654138512m, Max Vel: 0.9836764176m/s, Area: 141875.0m², Vol: 44605.6m³

Step 7300/29999, Sim Time: 2811.045s (+4.490e-01s), Max Depth: 0.8655659759m, Max Vel: 0.9838611505m/s, Area: 142000.0m², Vol: 44742.9m³

Step 7400/29999, Sim Time: 2855.938s (+4.489e-01s), Max Depth: 0.8658121152m, Max Vel: 0.9840840607m/s, Area: 142075.0m², Vol: 44882.4m³

Step 7500/29999, Sim Time: 2900.824s (+4.488e-01s), Max Depth: 0.8660574736m, Max Vel: 0.9843287481m/s, Area: 142300.0m², Vol: 45024.1m³

Step 7600/29999, Sim Time: 2945.703s (+4.488e-01s), Max Depth: 0.8662445297m, Max Vel: 0.9845834945m/s, Area: 142450.0m², Vol: 45168.2m³

Step 7700/29999, Sim Time: 2990.574s (+4.487e-01s), Max Depth: 0.8664930403m, Max Vel: 0.9848737838m/s, Area: 142600.0m², Vol: 45314.6m³

Step 7800/29999, Sim Time: 3035.436s (+4.486e-01s), Max Depth: 0.8667995239m, Max Vel: 0.9851674015m/s, Area: 142925.0m², Vol: 45464.2m³

Step 7900/29999, Sim Time: 3080.290s (+4.485e-01s), Max Depth: 0.8670864221m, Max Vel: 0.9854916979m/s, Area: 143100.0m², Vol: 45616.8m³

Step 8000/29999, Sim Time: 3125.136s (+4.484e-01s), Max Depth: 0.8672890341m, Max Vel: 0.9857610059m/s, Area: 143325.0m², Vol: 45772.1m³

Step 8100/29999, Sim Time: 3169.974s (+4.484e-01s), Max Depth: 0.8674652018m, Max Vel: 0.9859994072m/s, Area: 143375.0m², Vol: 45928.2m³

Step 8200/29999, Sim Time: 3214.806s (+4.483e-01s), Max Depth: 0.8676644706m, Max Vel: 0.9861700637m/s, Area: 143575.0m², Vol: 46084.3m³

Step 8300/29999, Sim Time: 3259.633s (+4.482e-01s), Max Depth: 0.8678277011m, Max Vel: 0.9863042374m/s, Area: 143950.0m², Vol: 46240.2m³

Step 8400/29999, Sim Time: 3304.458s (+4.482e-01s), Max Depth: 0.8678760897m, Max Vel: 0.9863751791m/s, Area: 144125.0m², Vol: 46396.4m³

Step 8500/29999, Sim Time: 3349.281s (+4.482e-01s), Max Depth: 0.8678527029m, Max Vel: 0.9864044764m/s, Area: 144225.0m², Vol: 46551.6m³

Step 8600/29999, Sim Time: 3394.103s (+4.482e-01s), Max Depth: 0.8678541911m, Max Vel: 0.9863860253m/s, Area: 144350.0m², Vol: 46706.1m³

Step 8700/29999, Sim Time: 3438.927s (+4.482e-01s), Max Depth: 0.8678553708m, Max Vel: 0.9863454028m/s, Area: 144400.0m², Vol: 46859.3m³

Step 8800/29999, Sim Time: 3483.753s (+4.483e-01s), Max Depth: 0.8677628885m, Max Vel: 0.9862473518m/s, Area: 144600.0m², Vol: 47011.3m³

Step 8900/29999, Sim Time: 3528.582s (+4.483e-01s), Max Depth: 0.8676079380m, Max Vel: 0.9861060086m/s, Area: 144875.0m², Vol: 47162.9m³

Step 9000/29999, Sim Time: 3573.414s (+4.483e-01s), Max Depth: 0.8675234832m, Max Vel: 0.9859575659m/s, Area: 145075.0m², Vol: 47314.2m³

Step 9100/29999, Sim Time: 3618.251s (+4.484e-01s), Max Depth: 0.8674381958m, Max Vel: 0.9858606439m/s, Area: 145225.0m², Vol: 47463.9m³

Step 9200/29999, Sim Time: 3663.092s (+4.484e-01s), Max Depth: 0.8672918586m, Max Vel: 0.9856542965m/s, Area: 145450.0m², Vol: 47611.3m³

Step 9300/29999, Sim Time: 3707.937s (+4.485e-01s), Max Depth: 0.8670942073m, Max Vel: 0.9854549756m/s, Area: 145600.0m², Vol: 47757.1m³

Step 9400/29999, Sim Time: 3752.787s (+4.485e-01s), Max Depth: 0.8669683177m, Max Vel: 0.9852939115m/s, Area: 145725.0m², Vol: 47900.9m³

Step 9500/29999, Sim Time: 3797.643s (+4.486e-01s), Max Depth: 0.8668338111m, Max Vel: 0.9851524019m/s, Area: 145950.0m², Vol: 48043.2m³

Step 9600/29999, Sim Time: 3842.504s (+4.486e-01s), Max Depth: 0.8666884961m, Max Vel: 0.9848973794m/s, Area: 146100.0m², Vol: 48183.7m³

Step 9700/29999, Sim Time: 3887.370s (+4.487e-01s), Max Depth: 0.8665218768m, Max Vel: 0.9846742671m/s, Area: 146250.0m², Vol: 48321.2m³

Step 9800/29999, Sim Time: 3932.240s (+4.487e-01s), Max Depth: 0.8663949335m, Max Vel: 0.9845468499m/s, Area: 146350.0m², Vol: 48456.0m³

Step 9900/29999, Sim Time: 3977.115s (+4.488e-01s), Max Depth: 0.8662871820m, Max Vel: 0.9843911393m/s, Area: 146550.0m², Vol: 48588.1m³

Step 10000/29999, Sim Time: 4021.994s (+4.488e-01s), Max Depth: 0.8661941040m, Max Vel: 0.9841964144m/s, Area: 146650.0m², Vol: 48717.9m³

Step 10100/29999, Sim Time: 4066.877s (+4.489e-01s), Max Depth: 0.8660748055m, Max Vel: 0.9840232223m/s, Area: 146900.0m², Vol: 48845.4m³

Step 10200/29999, Sim Time: 4111.764s (+4.489e-01s), Max Depth: 0.8659470403m, Max Vel: 0.9839388589m/s, Area: 147000.0m², Vol: 48970.4m³

Step 10300/29999, Sim Time: 4156.654s (+4.489e-01s), Max Depth: 0.8658631232m, Max Vel: 0.9837965840m/s, Area: 147100.0m², Vol: 49093.1m³

Step 10400/29999, Sim Time: 4201.547s (+4.489e-01s), Max Depth: 0.8658137268m, Max Vel: 0.9836546610m/s, Area: 147175.0m², Vol: 49213.2m³

Step 10500/29999, Sim Time: 4246.443s (+4.490e-01s), Max Depth: 0.8657414783m, Max Vel: 0.9835316878m/s, Area: 147400.0m², Vol: 49330.5m³

Step 10600/29999, Sim Time: 4291.341s (+4.490e-01s), Max Depth: 0.8656265228m, Max Vel: 0.9834806581m/s, Area: 147600.0m², Vol: 49446.2m³

Step 10700/29999, Sim Time: 4336.242s (+4.490e-01s), Max Depth: 0.8655683888m, Max Vel: 0.9833713513m/s, Area: 147700.0m², Vol: 49559.1m³

Step 10800/29999, Sim Time: 4381.145s (+4.490e-01s), Max Depth: 0.8655591796m, Max Vel: 0.9832789697m/s, Area: 147775.0m², Vol: 49669.3m³

Step 10900/29999, Sim Time: 4426.050s (+4.491e-01s), Max Depth: 0.8655252750m, Max Vel: 0.9832002118m/s, Area: 147900.0m², Vol: 49776.3m³

Step 11000/29999, Sim Time: 4470.957s (+4.491e-01s), Max Depth: 0.8654274216m, Max Vel: 0.9831619179m/s, Area: 148025.0m², Vol: 49879.9m³

Step 11100/29999, Sim Time: 4515.865s (+4.491e-01s), Max Depth: 0.8653833164m, Max Vel: 0.9830844843m/s, Area: 148050.0m², Vol: 49980.0m³

Step 11200/29999, Sim Time: 4560.774s (+4.491e-01s), Max Depth: 0.8653986217m, Max Vel: 0.9830280090m/s, Area: 148125.0m², Vol: 50076.0m³

Step 11300/29999, Sim Time: 4605.684s (+4.491e-01s), Max Depth: 0.8653913317m, Max Vel: 0.9829783805m/s, Area: 148175.0m², Vol: 50167.9m³

Step 11400/29999, Sim Time: 4650.596s (+4.491e-01s), Max Depth: 0.8653118538m, Max Vel: 0.9829456850m/s, Area: 148225.0m², Vol: 50256.3m³

Step 11500/29999, Sim Time: 4695.508s (+4.491e-01s), Max Depth: 0.8652727266m, Max Vel: 0.9829100040m/s, Area: 148225.0m², Vol: 50341.5m³

Step 11600/29999, Sim Time: 4740.421s (+4.491e-01s), Max Depth: 0.8653043744m, Max Vel: 0.9828709645m/s, Area: 148275.0m², Vol: 50423.6m³

Step 11700/29999, Sim Time: 4785.335s (+4.491e-01s), Max Depth: 0.8653213276m, Max Vel: 0.9828476174m/s, Area: 148400.0m², Vol: 50503.2m³

Step 11800/29999, Sim Time: 4830.249s (+4.492e-01s), Max Depth: 0.8652365054m, Max Vel: 0.9828428329m/s, Area: 148525.0m², Vol: 50581.0m³

Step 11900/29999, Sim Time: 4875.165s (+4.492e-01s), Max Depth: 0.8652262526m, Max Vel: 0.9827987209m/s, Area: 148600.0m², Vol: 50656.9m³

Step 12000/29999, Sim Time: 4920.079s (+4.491e-01s), Max Depth: 0.8652759684m, Max Vel: 0.9829013169m/s, Area: 148625.0m², Vol: 50730.7m³

Step 12100/29999, Sim Time: 4964.993s (+4.491e-01s), Max Depth: 0.8652810312m, Max Vel: 0.9828526723m/s, Area: 148750.0m², Vol: 50802.3m³

Step 12200/29999, Sim Time: 5009.908s (+4.492e-01s), Max Depth: 0.8652239286m, Max Vel: 0.9828070026m/s, Area: 148950.0m², Vol: 50872.3m³

Step 12300/29999, Sim Time: 5054.824s (+4.492e-01s), Max Depth: 0.8651649537m, Max Vel: 0.9827930098m/s, Area: 148950.0m², Vol: 50940.8m³

Step 12400/29999, Sim Time: 5099.741s (+4.492e-01s), Max Depth: 0.8651668679m, Max Vel: 0.9827595247m/s, Area: 149025.0m², Vol: 51007.6m³

Step 12500/29999, Sim Time: 5144.658s (+4.492e-01s), Max Depth: 0.8651934568m, Max Vel: 0.9827233352m/s, Area: 149125.0m², Vol: 51072.8m³

Step 12600/29999, Sim Time: 5189.576s (+4.492e-01s), Max Depth: 0.8651675941m, Max Vel: 0.9826968739m/s, Area: 149175.0m², Vol: 51135.8m³

Step 12700/29999, Sim Time: 5234.495s (+4.492e-01s), Max Depth: 0.8651129378m, Max Vel: 0.9826885409m/s, Area: 149225.0m², Vol: 51196.4m³

Step 12800/29999, Sim Time: 5279.413s (+4.492e-01s), Max Depth: 0.8651186805m, Max Vel: 0.9826651299m/s, Area: 149250.0m², Vol: 51254.9m³

Step 12900/29999, Sim Time: 5324.332s (+4.492e-01s), Max Depth: 0.8651606219m, Max Vel: 0.9826433951m/s, Area: 149275.0m², Vol: 51311.0m³

Step 13000/29999, Sim Time: 5369.252s (+4.492e-01s), Max Depth: 0.8651501652m, Max Vel: 0.9826221240m/s, Area: 149350.0m², Vol: 51365.0m³

Step 13100/29999, Sim Time: 5414.172s (+4.492e-01s), Max Depth: 0.8650905983m, Max Vel: 0.9826065177m/s, Area: 149400.0m², Vol: 51416.9m³

Step 13200/29999, Sim Time: 5459.092s (+4.492e-01s), Max Depth: 0.8650790990m, Max Vel: 0.9825802793m/s, Area: 149525.0m², Vol: 51467.3m³

Step 13300/29999, Sim Time: 5504.013s (+4.492e-01s), Max Depth: 0.8651159390m, Max Vel: 0.9825501297m/s, Area: 149600.0m², Vol: 51516.2m³

Step 13400/29999, Sim Time: 5548.934s (+4.492e-01s), Max Depth: 0.8651133320m, Max Vel: 0.9825185924m/s, Area: 149675.0m², Vol: 51563.5m³

Step 13500/29999, Sim Time: 5593.856s (+4.492e-01s), Max Depth: 0.8650435451m, Max Vel: 0.9824890727m/s, Area: 149750.0m², Vol: 51609.1m³

Step 13600/29999, Sim Time: 5638.779s (+4.492e-01s), Max Depth: 0.8650052514m, Max Vel: 0.9824442362m/s, Area: 149775.0m², Vol: 51653.2m³

Step 13700/29999, Sim Time: 5683.703s (+4.492e-01s), Max Depth: 0.8650278115m, Max Vel: 0.9823983304m/s, Area: 149850.0m², Vol: 51695.9m³

Step 13800/29999, Sim Time: 5728.627s (+4.492e-01s), Max Depth: 0.8650322600m, Max Vel: 0.9823522918m/s, Area: 149900.0m², Vol: 51736.9m³

Step 13900/29999, Sim Time: 5773.553s (+4.493e-01s), Max Depth: 0.8649560839m, Max Vel: 0.9823165088m/s, Area: 149950.0m², Vol: 51776.1m³

Step 14000/29999, Sim Time: 5818.480s (+4.493e-01s), Max Depth: 0.8648935770m, Max Vel: 0.9822574150m/s, Area: 149900.0m², Vol: 51813.6m³

Step 14100/29999, Sim Time: 5863.408s (+4.493e-01s), Max Depth: 0.8649041895m, Max Vel: 0.9821970337m/s, Area: 149975.0m², Vol: 51849.3m³

Step 14200/29999, Sim Time: 5908.338s (+4.493e-01s), Max Depth: 0.8649138224m, Max Vel: 0.9821553936m/s, Area: 150025.0m², Vol: 51883.8m³

Step 14300/29999, Sim Time: 5953.268s (+4.493e-01s), Max Depth: 0.8648392335m, Max Vel: 0.9821051896m/s, Area: 150050.0m², Vol: 51916.8m³

Step 14400/29999, Sim Time: 5998.200s (+4.493e-01s), Max Depth: 0.8647595433m, Max Vel: 0.9820418929m/s, Area: 150050.0m², Vol: 51948.4m³

Step 14500/29999, Sim Time: 6043.133s (+4.493e-01s), Max Depth: 0.8647589555m, Max Vel: 0.9819770312m/s, Area: 150025.0m², Vol: 51978.5m³

Step 14600/29999, Sim Time: 6088.068s (+4.493e-01s), Max Depth: 0.8647701267m, Max Vel: 0.9819415386m/s, Area: 150100.0m², Vol: 52007.6m³

Step 14700/29999, Sim Time: 6133.004s (+4.494e-01s), Max Depth: 0.8647045876m, Max Vel: 0.9818827250m/s, Area: 150100.0m², Vol: 52035.9m³

Step 14800/29999, Sim Time: 6177.941s (+4.494e-01s), Max Depth: 0.8646140476m, Max Vel: 0.9818208748m/s, Area: 150200.0m², Vol: 52063.4m³

Step 14900/29999, Sim Time: 6222.880s (+4.494e-01s), Max Depth: 0.8646007261m, Max Vel: 0.9817592670m/s, Area: 150150.0m², Vol: 52090.2m³

Step 15000/29999, Sim Time: 6267.820s (+4.494e-01s), Max Depth: 0.8646092186m, Max Vel: 0.9817269521m/s, Area: 150100.0m², Vol: 52116.2m³

Step 15100/29999, Sim Time: 6312.761s (+4.494e-01s), Max Depth: 0.8645569268m, Max Vel: 0.9816636385m/s, Area: 150150.0m², Vol: 52141.4m³

Step 15200/29999, Sim Time: 6357.704s (+4.494e-01s), Max Depth: 0.8644634422m, Max Vel: 0.9816041893m/s, Area: 150175.0m², Vol: 52166.0m³

Step 15300/29999, Sim Time: 6402.648s (+4.495e-01s), Max Depth: 0.8644362381m, Max Vel: 0.9815539343m/s, Area: 150200.0m², Vol: 52190.2m³

Step 15400/29999, Sim Time: 6447.594s (+4.495e-01s), Max Depth: 0.8644421653m, Max Vel: 0.9815235337m/s, Area: 150175.0m², Vol: 52213.9m³

Step 15500/29999, Sim Time: 6492.541s (+4.495e-01s), Max Depth: 0.8644073181m, Max Vel: 0.9814636812m/s, Area: 150200.0m², Vol: 52237.0m³

Step 15600/29999, Sim Time: 6537.489s (+4.495e-01s), Max Depth: 0.8643193261m, Max Vel: 0.9814134357m/s, Area: 150200.0m², Vol: 52259.5m³

Step 15700/29999, Sim Time: 6582.438s (+4.495e-01s), Max Depth: 0.8642668663m, Max Vel: 0.9813777006m/s, Area: 150200.0m², Vol: 52281.4m³

Step 15800/29999, Sim Time: 6627.389s (+4.495e-01s), Max Depth: 0.8642494897m, Max Vel: 0.9813328792m/s, Area: 150200.0m², Vol: 52303.0m³

Step 15900/29999, Sim Time: 6672.342s (+4.495e-01s), Max Depth: 0.8642078479m, Max Vel: 0.9812566006m/s, Area: 150250.0m², Vol: 52324.2m³

Step 16000/29999, Sim Time: 6717.297s (+4.496e-01s), Max Depth: 0.8641130362m, Max Vel: 0.9811820503m/s, Area: 150250.0m², Vol: 52344.7m³

Step 16100/29999, Sim Time: 6762.253s (+4.496e-01s), Max Depth: 0.8640303709m, Max Vel: 0.9811527642m/s, Area: 150225.0m², Vol: 52364.7m³

Step 16200/29999, Sim Time: 6807.212s (+4.496e-01s), Max Depth: 0.8640040330m, Max Vel: 0.9810865500m/s, Area: 150325.0m², Vol: 52384.6m³

Step 16300/29999, Sim Time: 6852.171s (+4.496e-01s), Max Depth: 0.8639836083m, Max Vel: 0.9810238241m/s, Area: 150350.0m², Vol: 52404.3m³

Step 16400/29999, Sim Time: 6897.133s (+4.496e-01s), Max Depth: 0.8639119570m, Max Vel: 0.9809646285m/s, Area: 150400.0m², Vol: 52424.1m³

Step 16500/29999, Sim Time: 6942.096s (+4.496e-01s), Max Depth: 0.8638131425m, Max Vel: 0.9809409809m/s, Area: 150450.0m², Vol: 52444.2m³

Step 16600/29999, Sim Time: 6987.061s (+4.497e-01s), Max Depth: 0.8637773332m, Max Vel: 0.9808749962m/s, Area: 150425.0m², Vol: 52464.5m³

Step 16700/29999, Sim Time: 7032.028s (+4.497e-01s), Max Depth: 0.8637635392m, Max Vel: 0.9808105430m/s, Area: 150400.0m², Vol: 52485.5m³

Step 16800/29999, Sim Time: 7076.996s (+4.497e-01s), Max Depth: 0.8636992675m, Max Vel: 0.9807512097m/s, Area: 150425.0m², Vol: 52507.1m³

Step 16900/29999, Sim Time: 7121.966s (+4.497e-01s), Max Depth: 0.8635783994m, Max Vel: 0.9807285005m/s, Area: 150350.0m², Vol: 52529.2m³

Step 17000/29999, Sim Time: 7166.939s (+4.497e-01s), Max Depth: 0.8635206750m, Max Vel: 0.9806338980m/s, Area: 150400.0m², Vol: 52552.3m³

Step 17100/29999, Sim Time: 7211.913s (+4.497e-01s), Max Depth: 0.8635181227m, Max Vel: 0.9805542770m/s, Area: 150350.0m², Vol: 52577.9m³

Step 17200/29999, Sim Time: 7256.889s (+4.498e-01s), Max Depth: 0.8634617860m, Max Vel: 0.9805101271m/s, Area: 150425.0m², Vol: 52607.2m³

Step 17300/29999, Sim Time: 7301.867s (+4.498e-01s), Max Depth: 0.8633101133m, Max Vel: 0.9804503450m/s, Area: 150500.0m², Vol: 52642.8m³

Step 17400/29999, Sim Time: 7346.848s (+4.498e-01s), Max Depth: 0.8631941651m, Max Vel: 0.9803322566m/s, Area: 150525.0m², Vol: 52690.9m³

Step 17500/29999, Sim Time: 7391.832s (+4.499e-01s), Max Depth: 0.8631668425m, Max Vel: 0.9802140040m/s, Area: 150750.0m², Vol: 52767.4m³

Step 17600/29999, Sim Time: 7436.820s (+4.499e-01s), Max Depth: 0.8631042113m, Max Vel: 0.9801716010m/s, Area: 150825.0m², Vol: 52899.3m³

Step 17700/29999, Sim Time: 7481.809s (+4.499e-01s), Max Depth: 0.8629678942m, Max Vel: 0.9800730855m/s, Area: 150975.0m², Vol: 53076.1m³

Step 17800/29999, Sim Time: 7526.801s (+4.499e-01s), Max Depth: 0.8628696780m, Max Vel: 0.9799927773m/s, Area: 151075.0m², Vol: 53261.8m³

Step 17900/29999, Sim Time: 7571.795s (+4.499e-01s), Max Depth: 0.8628562755m, Max Vel: 0.9799142993m/s, Area: 151250.0m², Vol: 53423.2m³

Step 18000/29999, Sim Time: 7616.791s (+4.500e-01s), Max Depth: 0.8628052580m, Max Vel: 0.9798728331m/s, Area: 151350.0m², Vol: 53562.1m³

Step 18100/29999, Sim Time: 7661.790s (+4.500e-01s), Max Depth: 0.8626767782m, Max Vel: 0.9797682647m/s, Area: 151475.0m², Vol: 53681.6m³

Step 18200/29999, Sim Time: 7706.791s (+4.500e-01s), Max Depth: 0.8625656531m, Max Vel: 0.9796794823m/s, Area: 151525.0m², Vol: 53784.8m³

Step 18300/29999, Sim Time: 7751.795s (+4.500e-01s), Max Depth: 0.8625386405m, Max Vel: 0.9795950638m/s, Area: 151575.0m², Vol: 53883.4m³

Step 18400/29999, Sim Time: 7796.802s (+4.501e-01s), Max Depth: 0.8624696244m, Max Vel: 0.9795304317m/s, Area: 151700.0m², Vol: 53979.8m³

Step 18500/29999, Sim Time: 7841.812s (+4.501e-01s), Max Depth: 0.8623071651m, Max Vel: 0.9793744109m/s, Area: 151800.0m², Vol: 54072.5m³

Step 18600/29999, Sim Time: 7886.825s (+4.502e-01s), Max Depth: 0.8621410748m, Max Vel: 0.9792157062m/s, Area: 151850.0m², Vol: 54154.6m³

Step 18700/29999, Sim Time: 7931.844s (+4.502e-01s), Max Depth: 0.8620069832m, Max Vel: 0.9791464540m/s, Area: 151825.0m², Vol: 54227.6m³

Step 18800/29999, Sim Time: 7976.868s (+4.503e-01s), Max Depth: 0.8618614286m, Max Vel: 0.9789627437m/s, Area: 151925.0m², Vol: 54294.4m³

Step 18900/29999, Sim Time: 8021.896s (+4.503e-01s), Max Depth: 0.8616788217m, Max Vel: 0.9787615161m/s, Area: 151975.0m², Vol: 54356.6m³

Step 19000/29999, Sim Time: 8066.929s (+4.504e-01s), Max Depth: 0.8615345767m, Max Vel: 0.9785948176m/s, Area: 151975.0m², Vol: 54414.4m³

Step 19100/29999, Sim Time: 8111.967s (+4.504e-01s), Max Depth: 0.8614066064m, Max Vel: 0.9785334419m/s, Area: 152000.0m², Vol: 54468.1m³

Step 19200/29999, Sim Time: 8157.008s (+4.504e-01s), Max Depth: 0.8613357573m, Max Vel: 0.9783726420m/s, Area: 152025.0m², Vol: 54517.7m³

Step 19300/29999, Sim Time: 8202.053s (+4.505e-01s), Max Depth: 0.8612435960m, Max Vel: 0.9782472834m/s, Area: 152050.0m², Vol: 54562.9m³

Step 19400/29999, Sim Time: 8247.100s (+4.505e-01s), Max Depth: 0.8611354917m, Max Vel: 0.9781434000m/s, Area: 152125.0m², Vol: 54604.4m³

Step 19500/29999, Sim Time: 8292.151s (+4.505e-01s), Max Depth: 0.8610243577m, Max Vel: 0.9780750136m/s, Area: 152125.0m², Vol: 54643.2m³

Step 19600/29999, Sim Time: 8337.204s (+4.505e-01s), Max Depth: 0.8609478806m, Max Vel: 0.9779391924m/s, Area: 152150.0m², Vol: 54680.6m³

Step 19700/29999, Sim Time: 8382.262s (+4.506e-01s), Max Depth: 0.8608294512m, Max Vel: 0.9777705133m/s, Area: 152150.0m², Vol: 54717.2m³

Step 19800/29999, Sim Time: 8427.324s (+4.506e-01s), Max Depth: 0.8606647911m, Max Vel: 0.9776309496m/s, Area: 152200.0m², Vol: 54753.5m³

Step 19900/29999, Sim Time: 8472.391s (+4.507e-01s), Max Depth: 0.8604479195m, Max Vel: 0.9774624777m/s, Area: 152225.0m², Vol: 54789.8m³

Step 20000/29999, Sim Time: 8517.464s (+4.508e-01s), Max Depth: 0.8603158616m, Max Vel: 0.9772430462m/s, Area: 152225.0m², Vol: 54825.8m³

Step 20100/29999, Sim Time: 8562.541s (+4.508e-01s), Max Depth: 0.8602404744m, Max Vel: 0.9770429080m/s, Area: 152325.0m², Vol: 54862.8m³

Step 20200/29999, Sim Time: 8607.624s (+4.509e-01s), Max Depth: 0.8600275647m, Max Vel: 0.9769188160m/s, Area: 152375.0m², Vol: 54902.4m³

Step 20300/29999, Sim Time: 8652.714s (+4.509e-01s), Max Depth: 0.8597720491m, Max Vel: 0.9766822799m/s, Area: 152500.0m², Vol: 54945.7m³

Step 20400/29999, Sim Time: 8697.809s (+4.510e-01s), Max Depth: 0.8597198366m, Max Vel: 0.9764240208m/s, Area: 152475.0m², Vol: 54995.1m³

Step 20500/29999, Sim Time: 8742.899s (+4.508e-01s), Max Depth: 0.8605444098m, Max Vel: 0.9762009090m/s, Area: 152525.0m², Vol: 55056.0m³

Step 20600/29999, Sim Time: 8787.978s (+4.509e-01s), Max Depth: 0.8602373006m, Max Vel: 0.9760613466m/s, Area: 152550.0m², Vol: 55140.4m³

Step 20700/29999, Sim Time: 8833.080s (+4.507e-01s), Max Depth: 0.8615359399m, Max Vel: 0.9758098296m/s, Area: 152600.0m², Vol: 55232.6m³

Step 20800/29999, Sim Time: 8878.080s (+4.495e-01s), Max Depth: 0.8610543132m, Max Vel: 0.9756083307m/s, Area: 152625.0m², Vol: 54876.0m³

Step 20900/29999, Sim Time: 8923.001s (+4.490e-01s), Max Depth: 0.8596892222m, Max Vel: 0.9754759614m/s, Area: 152725.0m², Vol: 54706.2m³

Step 21000/29999, Sim Time: 8967.895s (+4.489e-01s), Max Depth: 0.8588003849m, Max Vel: 0.9753042898m/s, Area: 152700.0m², Vol: 54673.6m³

Step 21100/29999, Sim Time: 9012.793s (+4.490e-01s), Max Depth: 0.8582383733m, Max Vel: 0.9751086563m/s, Area: 152750.0m², Vol: 54688.1m³

Step 21200/29999, Sim Time: 9057.696s (+4.491e-01s), Max Depth: 0.8578783084m, Max Vel: 0.9749306905m/s, Area: 152775.0m², Vol: 54714.6m³

Step 21300/29999, Sim Time: 9102.605s (+4.491e-01s), Max Depth: 0.8568921255m, Max Vel: 0.9748023639m/s, Area: 152750.0m², Vol: 54686.9m³

Step 21400/29999, Sim Time: 9147.523s (+4.492e-01s), Max Depth: 0.8554618194m, Max Vel: 0.9745544603m/s, Area: 152775.0m², Vol: 54628.0m³

Step 21500/29999, Sim Time: 9192.446s (+4.493e-01s), Max Depth: 0.8541861840m, Max Vel: 0.9742952640m/s, Area: 152775.0m², Vol: 54570.0m³

Step 21600/29999, Sim Time: 9237.374s (+4.493e-01s), Max Depth: 0.8524927819m, Max Vel: 0.9740946681m/s, Area: 152725.0m², Vol: 54476.1m³

Step 21700/29999, Sim Time: 9282.305s (+4.493e-01s), Max Depth: 0.8512993445m, Max Vel: 0.9738913380m/s, Area: 152700.0m², Vol: 54399.8m³

Step 21800/29999, Sim Time: 9327.236s (+4.493e-01s), Max Depth: 0.8488848497m, Max Vel: 0.9735628238m/s, Area: 152725.0m², Vol: 54245.7m³

Step 21900/29999, Sim Time: 9372.169s (+4.494e-01s), Max Depth: 0.8471605065m, Max Vel: 0.9732534825m/s, Area: 152725.0m², Vol: 54138.9m³

Step 22000/29999, Sim Time: 9417.107s (+4.494e-01s), Max Depth: 0.8461308777m, Max Vel: 0.9730185331m/s, Area: 152700.0m², Vol: 54077.8m³

Step 22100/29999, Sim Time: 9462.049s (+4.494e-01s), Max Depth: 0.8440182927m, Max Vel: 0.9726203945m/s, Area: 152700.0m², Vol: 53943.3m³

Step 22200/29999, Sim Time: 9506.996s (+4.495e-01s), Max Depth: 0.8429989861m, Max Vel: 0.9721983987m/s, Area: 152700.0m², Vol: 53875.5m³

Step 22300/29999, Sim Time: 9551.946s (+4.495e-01s), Max Depth: 0.8413235423m, Max Vel: 0.9718013204m/s, Area: 152750.0m², Vol: 53764.7m³

Step 22400/29999, Sim Time: 9596.902s (+4.496e-01s), Max Depth: 0.8408384954m, Max Vel: 0.9713777573m/s, Area: 152750.0m², Vol: 53730.0m³

Step 22500/29999, Sim Time: 9641.864s (+4.497e-01s), Max Depth: 0.8397983246m, Max Vel: 0.9707030277m/s, Area: 152750.0m², Vol: 53659.5m³

Step 22600/29999, Sim Time: 9686.833s (+4.498e-01s), Max Depth: 0.8394072320m, Max Vel: 0.9698553878m/s, Area: 152700.0m², Vol: 53628.5m³

Step 22700/29999, Sim Time: 9731.811s (+4.498e-01s), Max Depth: 0.8384818181m, Max Vel: 0.9694675414m/s, Area: 152700.0m², Vol: 53561.9m³

Step 22800/29999, Sim Time: 9776.797s (+4.499e-01s), Max Depth: 0.8381628156m, Max Vel: 0.9686207373m/s, Area: 152650.0m², Vol: 53532.5m³

Step 22900/29999, Sim Time: 9821.790s (+4.500e-01s), Max Depth: 0.8361435719m, Max Vel: 0.9679778108m/s, Area: 152650.0m², Vol: 53394.1m³

Step 23000/29999, Sim Time: 9866.789s (+4.500e-01s), Max Depth: 0.8337735000m, Max Vel: 0.9675620856m/s, Area: 152625.0m², Vol: 53232.3m³

Step 23100/29999, Sim Time: 9911.794s (+4.501e-01s), Max Depth: 0.8319923911m, Max Vel: 0.9670151170m/s, Area: 152575.0m², Vol: 53107.0m³

Step 23200/29999, Sim Time: 9956.800s (+4.501e-01s), Max Depth: 0.8314868490m, Max Vel: 0.9669020432m/s, Area: 152475.0m², Vol: 53062.1m³

Step 23300/29999, Sim Time: 10001.805s (+4.501e-01s), Max Depth: 0.8291356623m, Max Vel: 0.9669036463m/s, Area: 152475.0m², Vol: 52898.4m³

Step 23400/29999, Sim Time: 10046.814s (+4.501e-01s), Max Depth: 0.8278272291m, Max Vel: 0.9667399875m/s, Area: 152425.0m², Vol: 52800.6m³

Step 23500/29999, Sim Time: 10091.828s (+4.501e-01s), Max Depth: 0.8257514730m, Max Vel: 0.9666545341m/s, Area: 152450.0m², Vol: 52653.8m³

Step 23600/29999, Sim Time: 10136.848s (+4.502e-01s), Max Depth: 0.8241351472m, Max Vel: 0.9662236205m/s, Area: 152450.0m², Vol: 52536.0m³

Step 23700/29999, Sim Time: 10181.871s (+4.502e-01s), Max Depth: 0.8222166369m, Max Vel: 0.9656737351m/s, Area: 152375.0m², Vol: 52398.3m³

Step 23800/29999, Sim Time: 10226.893s (+4.502e-01s), Max Depth: 0.8202606936m, Max Vel: 0.9659299638m/s, Area: 152350.0m², Vol: 52257.7m³

Step 23900/29999, Sim Time: 10271.911s (+4.502e-01s), Max Depth: 0.8192586734m, Max Vel: 0.9657222417m/s, Area: 152300.0m², Vol: 52177.4m³

Step 24000/29999, Sim Time: 10316.926s (+4.502e-01s), Max Depth: 0.8181779029m, Max Vel: 0.9662438970m/s, Area: 152250.0m², Vol: 52091.6m³

Step 24100/29999, Sim Time: 10361.940s (+4.500e-01s), Max Depth: 0.8163076374m, Max Vel: 0.9675291344m/s, Area: 152150.0m², Vol: 51955.0m³

Step 24200/29999, Sim Time: 10406.952s (+4.501e-01s), Max Depth: 0.8147379690m, Max Vel: 0.9668065841m/s, Area: 152100.0m², Vol: 51837.4m³

Step 24300/29999, Sim Time: 10451.960s (+4.501e-01s), Max Depth: 0.8124124908m, Max Vel: 0.9671164533m/s, Area: 152075.0m², Vol: 51671.6m³

Step 24400/29999, Sim Time: 10496.966s (+4.501e-01s), Max Depth: 0.8117734066m, Max Vel: 0.9671518213m/s, Area: 152025.0m², Vol: 51613.2m³

Step 24500/29999, Sim Time: 10541.966s (+4.500e-01s), Max Depth: 0.8096085252m, Max Vel: 0.9673290574m/s, Area: 152025.0m², Vol: 51457.6m³

Step 24600/29999, Sim Time: 10586.964s (+4.499e-01s), Max Depth: 0.8087191028m, Max Vel: 0.9683640128m/s, Area: 152025.0m², Vol: 51383.2m³

Step 24700/29999, Sim Time: 10631.961s (+4.499e-01s), Max Depth: 0.8070619056m, Max Vel: 0.9687683815m/s, Area: 152000.0m², Vol: 51260.2m³

Step 24800/29999, Sim Time: 10676.950s (+4.499e-01s), Max Depth: 0.8066929333m, Max Vel: 0.9685138341m/s, Area: 151950.0m², Vol: 51218.8m³

Step 24900/29999, Sim Time: 10721.933s (+4.498e-01s), Max Depth: 0.8043005391m, Max Vel: 0.9698721161m/s, Area: 151950.0m², Vol: 51049.1m³

Step 25000/29999, Sim Time: 10766.908s (+4.498e-01s), Max Depth: 0.8032964522m, Max Vel: 0.9696956997m/s, Area: 151900.0m², Vol: 50967.4m³

Step 25100/29999, Sim Time: 10811.874s (+4.497e-01s), Max Depth: 0.8010383568m, Max Vel: 0.9706068230m/s, Area: 151825.0m², Vol: 50805.7m³

Step 25200/29999, Sim Time: 10856.833s (+4.494e-01s), Max Depth: 0.7999295629m, Max Vel: 0.9725055688m/s, Area: 151800.0m², Vol: 50716.9m³

Step 25300/29999, Sim Time: 10901.784s (+4.495e-01s), Max Depth: 0.7996578786m, Max Vel: 0.9722617971m/s, Area: 151700.0m², Vol: 50681.1m³

Step 25400/29999, Sim Time: 10946.723s (+4.494e-01s), Max Depth: 0.7988632686m, Max Vel: 0.9732374795m/s, Area: 151650.0m², Vol: 50611.9m³

Step 25500/29999, Sim Time: 10991.654s (+4.493e-01s), Max Depth: 0.7977033865m, Max Vel: 0.9739206841m/s, Area: 151600.0m², Vol: 50519.6m³

Step 25600/29999, Sim Time: 11036.576s (+4.492e-01s), Max Depth: 0.7968624308m, Max Vel: 0.9747864317m/s, Area: 151600.0m², Vol: 50447.7m³

Step 25700/29999, Sim Time: 11081.489s (+4.491e-01s), Max Depth: 0.7964772265m, Max Vel: 0.9754825740m/s, Area: 151625.0m², Vol: 50404.8m³

Step 25800/29999, Sim Time: 11126.396s (+4.489e-01s), Max Depth: 0.7943900455m, Max Vel: 0.9768758787m/s, Area: 151625.0m², Vol: 50254.5m³

Step 25900/29999, Sim Time: 11171.294s (+4.490e-01s), Max Depth: 0.7928878308m, Max Vel: 0.9763716251m/s, Area: 151625.0m², Vol: 50141.6m³

Step 26000/29999, Sim Time: 11216.183s (+4.488e-01s), Max Depth: 0.7924445277m, Max Vel: 0.9779834989m/s, Area: 151575.0m², Vol: 50095.8m³

Step 26100/29999, Sim Time: 11261.066s (+4.488e-01s), Max Depth: 0.7915841026m, Max Vel: 0.9781920346m/s, Area: 151525.0m², Vol: 50023.8m³

Step 26200/29999, Sim Time: 11305.939s (+4.487e-01s), Max Depth: 0.7896248753m, Max Vel: 0.9790722383m/s, Area: 151525.0m², Vol: 49882.5m³

Step 26300/29999, Sim Time: 11350.803s (+4.486e-01s), Max Depth: 0.7886823469m, Max Vel: 0.9795726284m/s, Area: 151450.0m², Vol: 49805.4m³

Step 26400/29999, Sim Time: 11395.660s (+4.485e-01s), Max Depth: 0.7871850764m, Max Vel: 0.9804755311m/s, Area: 151400.0m², Vol: 49693.4m³

Step 26500/29999, Sim Time: 11440.508s (+4.485e-01s), Max Depth: 0.7849709607m, Max Vel: 0.9810530426m/s, Area: 151400.0m², Vol: 49536.4m³

Step 26600/29999, Sim Time: 11485.350s (+4.483e-01s), Max Depth: 0.7844857776m, Max Vel: 0.9822970157m/s, Area: 151425.0m², Vol: 49488.9m³

Step 26700/29999, Sim Time: 11530.184s (+4.483e-01s), Max Depth: 0.7827762924m, Max Vel: 0.9824504428m/s, Area: 151375.0m², Vol: 49364.4m³

Step 26800/29999, Sim Time: 11575.011s (+4.482e-01s), Max Depth: 0.7821496423m, Max Vel: 0.9832798537m/s, Area: 151375.0m², Vol: 49308.3m³

Step 26900/29999, Sim Time: 11619.832s (+4.482e-01s), Max Depth: 0.7803043806m, Max Vel: 0.9837022474m/s, Area: 151375.0m², Vol: 49175.6m³

Step 27000/29999, Sim Time: 11664.646s (+4.482e-01s), Max Depth: 0.7797424950m, Max Vel: 0.9836655945m/s, Area: 151375.0m², Vol: 49124.1m³

Step 27100/29999, Sim Time: 11709.455s (+4.481e-01s), Max Depth: 0.7788975315m, Max Vel: 0.9843185077m/s, Area: 151325.0m², Vol: 49054.9m³

Step 27200/29999, Sim Time: 11754.259s (+4.480e-01s), Max Depth: 0.7766671948m, Max Vel: 0.9852201831m/s, Area: 151350.0m², Vol: 48899.0m³

Step 27300/29999, Sim Time: 11799.058s (+4.480e-01s), Max Depth: 0.7747571434m, Max Vel: 0.9854768764m/s, Area: 151300.0m², Vol: 48763.4m³

Step 27400/29999, Sim Time: 11843.853s (+4.479e-01s), Max Depth: 0.7727158001m, Max Vel: 0.9860665112m/s, Area: 151275.0m², Vol: 48619.9m³

Step 27500/29999, Sim Time: 11888.644s (+4.479e-01s), Max Depth: 0.7707275519m, Max Vel: 0.9863310763m/s, Area: 151275.0m², Vol: 48479.9m³

Step 27600/29999, Sim Time: 11933.431s (+4.478e-01s), Max Depth: 0.7699745094m, Max Vel: 0.9865907172m/s, Area: 151250.0m², Vol: 48417.8m³

Step 27700/29999, Sim Time: 11978.215s (+4.479e-01s), Max Depth: 0.7676596256m, Max Vel: 0.9861138580m/s, Area: 151250.0m², Vol: 48257.7m³

Step 27800/29999, Sim Time: 12022.996s (+4.478e-01s), Max Depth: 0.7663292576m, Max Vel: 0.9868916556m/s, Area: 151250.0m², Vol: 48159.8m³

Step 27900/29999, Sim Time: 12067.776s (+4.478e-01s), Max Depth: 0.7648814588m, Max Vel: 0.9871270796m/s, Area: 151250.0m², Vol: 48055.0m³

Step 28000/29999, Sim Time: 12112.553s (+4.478e-01s), Max Depth: 0.7632866399m, Max Vel: 0.9872247281m/s, Area: 151200.0m², Vol: 47941.2m³

Step 28100/29999, Sim Time: 12157.330s (+4.477e-01s), Max Depth: 0.7627536445m, Max Vel: 0.9875399389m/s, Area: 151225.0m², Vol: 47894.4m³

Step 28200/29999, Sim Time: 12202.105s (+4.477e-01s), Max Depth: 0.7613487263m, Max Vel: 0.9877132103m/s, Area: 151225.0m², Vol: 47793.1m³

Step 28300/29999, Sim Time: 12246.883s (+4.478e-01s), Max Depth: 0.7605304111m, Max Vel: 0.9869954177m/s, Area: 151225.0m², Vol: 47729.0m³

Step 28400/29999, Sim Time: 12291.660s (+4.478e-01s), Max Depth: 0.7601650625m, Max Vel: 0.9869900753m/s, Area: 151175.0m², Vol: 47693.8m³

Step 28500/29999, Sim Time: 12336.435s (+4.477e-01s), Max Depth: 0.7595876552m, Max Vel: 0.9875424148m/s, Area: 151125.0m², Vol: 47645.5m³

Step 28600/29999, Sim Time: 12381.208s (+4.477e-01s), Max Depth: 0.7589341207m, Max Vel: 0.9877697510m/s, Area: 151100.0m², Vol: 47592.3m³

Step 28700/29999, Sim Time: 12425.979s (+4.477e-01s), Max Depth: 0.7577623978m, Max Vel: 0.9878693248m/s, Area: 151100.0m², Vol: 47507.0m³

Step 28800/29999, Sim Time: 12470.748s (+4.477e-01s), Max Depth: 0.7560417857m, Max Vel: 0.9879432184m/s, Area: 151100.0m², Vol: 47387.6m³

Step 28900/29999, Sim Time: 12515.518s (+4.477e-01s), Max Depth: 0.7549843971m, Max Vel: 0.9879545027m/s, Area: 151100.0m², Vol: 47310.2m³

Step 29000/29999, Sim Time: 12560.287s (+4.477e-01s), Max Depth: 0.7543744708m, Max Vel: 0.9879739536m/s, Area: 151100.0m², Vol: 47261.2m³

Step 29100/29999, Sim Time: 12605.056s (+4.477e-01s), Max Depth: 0.7522736398m, Max Vel: 0.9879460415m/s, Area: 151075.0m², Vol: 47119.1m³

Step 29200/29999, Sim Time: 12649.826s (+4.477e-01s), Max Depth: 0.7507721277m, Max Vel: 0.9879144664m/s, Area: 151050.0m², Vol: 47014.8m³

Step 29300/29999, Sim Time: 12694.596s (+4.477e-01s), Max Depth: 0.7493878236m, Max Vel: 0.9878952979m/s, Area: 151025.0m², Vol: 46918.1m³

Step 29400/29999, Sim Time: 12739.366s (+4.477e-01s), Max Depth: 0.7478175191m, Max Vel: 0.9879017232m/s, Area: 151000.0m², Vol: 46810.1m³

Step 29500/29999, Sim Time: 12784.137s (+4.477e-01s), Max Depth: 0.7458972700m, Max Vel: 0.9878672687m/s, Area: 151000.0m², Vol: 46680.2m³

Step 29600/29999, Sim Time: 12828.907s (+4.477e-01s), Max Depth: 0.7438122222m, Max Vel: 0.9878427433m/s, Area: 150950.0m², Vol: 46540.3m³

Step 29700/29999, Sim Time: 12873.678s (+4.477e-01s), Max Depth: 0.7428734295m, Max Vel: 0.9878305012m/s, Area: 150925.0m², Vol: 46472.4m³

Step 29800/29999, Sim Time: 12918.450s (+4.477e-01s), Max Depth: 0.7422292062m, Max Vel: 0.9878179294m/s, Area: 150925.0m², Vol: 46423.3m³

Step 29900/29999, Sim Time: 12963.221s (+4.477e-01s), Max Depth: 0.7413961995m, Max Vel: 0.9877795668m/s, Area: 150925.0m², Vol: 46362.6m³

Step 29999/29999, Sim Time: 13007.546s (+4.477e-01s), Max Depth: 0.7391742813m, Max Vel: 0.9877445614m/s, Area: 150900.0m², Vol: 46215.3m³

Simulation finished 30000 steps in 234.32 seconds (wall clock).

Final Maximum Flood Extent Area: 154650.00 m²

Peak Recorded Water Depth Anywhere: 3.288 m

Phase 2 max depth: 0.739 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\_source2\_5\_rain0.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_source2\_5\_rain0\_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 0.76171875 --output-freq 100 -o result\_source2\_5\_rain0\_76171875.mp4 --save --source-row 50 --source-col 1 --source-rate 2.5

--- 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 171.06 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=2.1158854166666666e-07 m/s, duration=30000 steps

Added rainfall for Phase 2: 0.76171875 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337671765m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39720.0m³

Step 100/29999, Sim Time: 48.379s (+3.773e-01s), Max Depth: 1.3502461712m, Max Vel: 1.0156274403m/s, Area: 130875.0m², Vol: 39769.6m³

Step 200/29999, Sim Time: 81.335s (+2.963e-01s), Max Depth: 2.1416138233m, Max Vel: 1.3329794157m/s, Area: 130850.0m², Vol: 39803.9m³

Step 300/29999, Sim Time: 101.613s (+1.159e-01s), Max Depth: 2.6501315696m, Max Vel: 9.9999999999m/s, Area: 130900.0m², Vol: 39827.2m³

Step 400/29999, Sim Time: 113.063s (+1.132e-01s), Max Depth: 3.0423712750m, Max Vel: 9.9999999995m/s, Area: 130900.0m², Vol: 39844.2m³

Step 500/29999, Sim Time: 124.298s (+1.118e-01s), Max Depth: 3.2595653351m, Max Vel: 9.9999999990m/s, Area: 130900.0m², Vol: 39858.2m³

Step 600/29999, Sim Time: 144.683s (+2.227e-01s), Max Depth: 3.1740460947m, Max Vel: 2.2735054789m/s, Area: 130950.0m², Vol: 39883.8m³

Step 700/29999, Sim Time: 167.977s (+2.321e-01s), Max Depth: 2.8476592027m, Max Vel: 2.2553032962m/s, Area: 131100.0m², Vol: 39912.8m³

Step 800/29999, Sim Time: 186.714s (+1.183e-01s), Max Depth: 2.3351526362m, Max Vel: 9.9999999994m/s, Area: 131100.0m², Vol: 39937.5m³

Step 900/29999, Sim Time: 214.669s (+3.345e-01s), Max Depth: 1.5896815852m, Max Vel: 1.2743249366m/s, Area: 131150.0m², Vol: 39978.8m³

Step 1000/29999, Sim Time: 250.982s (+3.780e-01s), Max Depth: 1.3322378783m, Max Vel: 1.0108040705m/s, Area: 131375.0m², Vol: 40030.9m³

Step 1100/29999, Sim Time: 288.953s (+3.710e-01s), Max Depth: 1.3305442491m, Max Vel: 1.1023635523m/s, Area: 131525.0m², Vol: 40087.3m³

Step 1200/29999, Sim Time: 310.584s (+3.701e-01s), Max Depth: 1.3102680245m, Max Vel: 1.0190150293m/s, Area: 131650.0m², Vol: 40125.7m³

Step 1300/29999, Sim Time: 349.038s (+3.766e-01s), Max Depth: 1.3343136625m, Max Vel: 1.0330343839m/s, Area: 131975.0m², Vol: 40190.0m³

Step 1400/29999, Sim Time: 376.290s (+1.283e-01s), Max Depth: 1.3508740624m, Max Vel: 9.9999999992m/s, Area: 132275.0m², Vol: 40243.3m³

Step 1500/29999, Sim Time: 408.295s (+3.572e-01s), Max Depth: 1.3383062679m, Max Vel: 1.2794186847m/s, Area: 132775.0m², Vol: 40296.4m³

Step 1600/29999, Sim Time: 430.339s (+3.505e-01s), Max Depth: 1.3182331102m, Max Vel: 1.3481391803m/s, Area: 132850.0m², Vol: 40334.5m³

Step 1700/29999, Sim Time: 463.788s (+1.286e-01s), Max Depth: 1.3266984221m, Max Vel: 9.9999999992m/s, Area: 133125.0m², Vol: 40380.0m³

Step 1800/29999, Sim Time: 489.915s (+3.633e-01s), Max Depth: 1.2906082100m, Max Vel: 1.2570981744m/s, Area: 133275.0m², Vol: 40419.0m³

Step 1900/29999, Sim Time: 526.235s (+3.632e-01s), Max Depth: 1.2924043517m, Max Vel: 1.2588396208m/s, Area: 133275.0m², Vol: 40463.3m³

Step 2000/29999, Sim Time: 551.020s (+3.647e-01s), Max Depth: 1.2774793235m, Max Vel: 1.2604492811m/s, Area: 133275.0m², Vol: 40500.0m³

Step 2100/29999, Sim Time: 587.460s (+3.639e-01s), Max Depth: 1.2740835009m, Max Vel: 1.2718675993m/s, Area: 133400.0m², Vol: 40546.2m³

Step 2200/29999, Sim Time: 624.058s (+3.673e-01s), Max Depth: 1.2377372541m, Max Vel: 1.2794008226m/s, Area: 133700.0m², Vol: 40596.7m³

Step 2300/29999, Sim Time: 661.087s (+3.735e-01s), Max Depth: 1.2016411400m, Max Vel: 1.2508965093m/s, Area: 133875.0m², Vol: 40648.8m³

Step 2400/29999, Sim Time: 698.672s (+3.787e-01s), Max Depth: 1.1709024239m, Max Vel: 1.2312967603m/s, Area: 134025.0m², Vol: 40703.5m³

Step 2500/29999, Sim Time: 736.744s (+3.826e-01s), Max Depth: 1.1457507571m, Max Vel: 1.2213817576m/s, Area: 134225.0m², Vol: 40761.3m³

Step 2600/29999, Sim Time: 775.264s (+3.875e-01s), Max Depth: 1.1130649179m, Max Vel: 1.2110020479m/s, Area: 134375.0m², Vol: 40818.1m³

Step 2700/29999, Sim Time: 814.399s (+3.955e-01s), Max Depth: 1.0758009688m, Max Vel: 1.1755984492m/s, Area: 134525.0m², Vol: 40873.0m³

Step 2800/29999, Sim Time: 854.266s (+4.020e-01s), Max Depth: 1.0451669641m, Max Vel: 1.1508974336m/s, Area: 134750.0m², Vol: 40930.8m³

Step 2900/29999, Sim Time: 894.686s (+4.064e-01s), Max Depth: 1.0228809803m, Max Vel: 1.1379551893m/s, Area: 134975.0m², Vol: 40991.1m³

Step 3000/29999, Sim Time: 935.603s (+4.112e-01s), Max Depth: 1.0009715629m, Max Vel: 1.1213629798m/s, Area: 135125.0m², Vol: 41054.0m³

Step 3100/29999, Sim Time: 976.982s (+4.159e-01s), Max Depth: 0.9822674662m, Max Vel: 1.1037465623m/s, Area: 135250.0m², Vol: 41119.3m³

Step 3200/29999, Sim Time: 1018.740s (+4.197e-01s), Max Depth: 0.9672398593m, Max Vel: 1.0894343663m/s, Area: 135450.0m², Vol: 41186.0m³

Step 3300/29999, Sim Time: 1060.850s (+4.229e-01s), Max Depth: 0.9551481114m, Max Vel: 1.0761293561m/s, Area: 135600.0m², Vol: 41254.2m³

Step 3400/29999, Sim Time: 1103.299s (+4.257e-01s), Max Depth: 0.9439543674m, Max Vel: 1.0677889407m/s, Area: 135725.0m², Vol: 41324.5m³

Step 3500/29999, Sim Time: 1146.026s (+4.284e-01s), Max Depth: 0.9328863456m, Max Vel: 1.0597699470m/s, Area: 135850.0m², Vol: 41396.7m³

Step 3600/29999, Sim Time: 1189.010s (+4.312e-01s), Max Depth: 0.9226616632m, Max Vel: 1.0494644634m/s, Area: 136050.0m², Vol: 41470.4m³

Step 3700/29999, Sim Time: 1232.247s (+4.339e-01s), Max Depth: 0.9137051874m, Max Vel: 1.0391985429m/s, Area: 136175.0m², Vol: 41545.7m³

Step 3800/29999, Sim Time: 1275.733s (+4.360e-01s), Max Depth: 0.9065096532m, Max Vel: 1.0316309577m/s, Area: 136325.0m², Vol: 41622.2m³

Step 3900/29999, Sim Time: 1319.455s (+4.381e-01s), Max Depth: 0.8986131089m, Max Vel: 1.0256439925m/s, Area: 136500.0m², Vol: 41699.0m³

Step 4000/29999, Sim Time: 1363.381s (+4.402e-01s), Max Depth: 0.8916181855m, Max Vel: 1.0177004193m/s, Area: 136625.0m², Vol: 41776.0m³

Step 4100/29999, Sim Time: 1407.481s (+4.420e-01s), Max Depth: 0.8862210407m, Max Vel: 1.0109148017m/s, Area: 136725.0m², Vol: 41854.2m³

Step 4200/29999, Sim Time: 1451.730s (+4.431e-01s), Max Depth: 0.8829297054m, Max Vel: 1.0058528186m/s, Area: 136900.0m², Vol: 41934.0m³

Step 4300/29999, Sim Time: 1496.104s (+4.441e-01s), Max Depth: 0.8795651630m, Max Vel: 1.0033134981m/s, Area: 137250.0m², Vol: 42016.0m³

Step 4400/29999, Sim Time: 1540.569s (+4.450e-01s), Max Depth: 0.8767406034m, Max Vel: 0.9995825722m/s, Area: 137400.0m², Vol: 42100.8m³

Step 4500/29999, Sim Time: 1585.098s (+4.457e-01s), Max Depth: 0.8748956699m, Max Vel: 0.9969818101m/s, Area: 137750.0m², Vol: 42187.9m³

Step 4600/29999, Sim Time: 1629.676s (+4.460e-01s), Max Depth: 0.8743522400m, Max Vel: 0.9952596615m/s, Area: 137950.0m², Vol: 42278.4m³

Step 4700/29999, Sim Time: 1674.287s (+4.461e-01s), Max Depth: 0.8736603763m, Max Vel: 0.9949376253m/s, Area: 138025.0m², Vol: 42371.0m³

Step 4800/29999, Sim Time: 1718.915s (+4.463e-01s), Max Depth: 0.8731549739m, Max Vel: 0.9940357246m/s, Area: 138100.0m², Vol: 42464.5m³

Step 4900/29999, Sim Time: 1763.553s (+4.465e-01s), Max Depth: 0.8728524727m, Max Vel: 0.9935589262m/s, Area: 138200.0m², Vol: 42557.9m³

Step 5000/29999, Sim Time: 1808.199s (+4.465e-01s), Max Depth: 0.8727826129m, Max Vel: 0.9931590752m/s, Area: 138375.0m², Vol: 42651.2m³

Step 5100/29999, Sim Time: 1852.856s (+4.466e-01s), Max Depth: 0.8725258267m, Max Vel: 0.9929917091m/s, Area: 138625.0m², Vol: 42745.1m³

Step 5200/29999, Sim Time: 1897.522s (+4.467e-01s), Max Depth: 0.8721144669m, Max Vel: 0.9925103251m/s, Area: 138700.0m², Vol: 42839.3m³

Step 5300/29999, Sim Time: 1942.199s (+4.469e-01s), Max Depth: 0.8717147273m, Max Vel: 0.9919750521m/s, Area: 138850.0m², Vol: 42934.5m³

Step 5400/29999, Sim Time: 1986.888s (+4.470e-01s), Max Depth: 0.8714636975m, Max Vel: 0.9914010687m/s, Area: 138925.0m², Vol: 43031.6m³

Step 5500/29999, Sim Time: 2031.593s (+4.471e-01s), Max Depth: 0.8710321405m, Max Vel: 0.9910504561m/s, Area: 139075.0m², Vol: 43130.4m³

Step 5600/29999, Sim Time: 2076.313s (+4.473e-01s), Max Depth: 0.8704157528m, Max Vel: 0.9903147906m/s, Area: 139325.0m², Vol: 43231.8m³

Step 5700/29999, Sim Time: 2121.051s (+4.475e-01s), Max Depth: 0.8698044655m, Max Vel: 0.9895242201m/s, Area: 139475.0m², Vol: 43335.4m³

Step 5800/29999, Sim Time: 2165.806s (+4.477e-01s), Max Depth: 0.8694326454m, Max Vel: 0.9887796207m/s, Area: 139725.0m², Vol: 43441.0m³

Step 5900/29999, Sim Time: 2210.583s (+4.478e-01s), Max Depth: 0.8688239623m, Max Vel: 0.9883393329m/s, Area: 139900.0m², Vol: 43549.3m³

Step 6000/29999, Sim Time: 2255.379s (+4.481e-01s), Max Depth: 0.8681078361m, Max Vel: 0.9874289196m/s, Area: 140050.0m², Vol: 43659.6m³

Step 6100/29999, Sim Time: 2300.194s (+4.483e-01s), Max Depth: 0.8674325392m, Max Vel: 0.9865795142m/s, Area: 140250.0m², Vol: 43772.4m³

Step 6200/29999, Sim Time: 2345.030s (+4.484e-01s), Max Depth: 0.8670489990m, Max Vel: 0.9858956016m/s, Area: 140475.0m², Vol: 43888.4m³

Step 6300/29999, Sim Time: 2389.885s (+4.486e-01s), Max Depth: 0.8664802700m, Max Vel: 0.9854721018m/s, Area: 140525.0m², Vol: 44007.2m³

Step 6400/29999, Sim Time: 2434.756s (+4.488e-01s), Max Depth: 0.8659408792m, Max Vel: 0.9846897500m/s, Area: 140600.0m², Vol: 44128.6m³

Step 6500/29999, Sim Time: 2479.642s (+4.489e-01s), Max Depth: 0.8655192236m, Max Vel: 0.9841007910m/s, Area: 140800.0m², Vol: 44252.9m³

Step 6600/29999, Sim Time: 2524.540s (+4.490e-01s), Max Depth: 0.8653398111m, Max Vel: 0.9837950030m/s, Area: 141025.0m², Vol: 44380.9m³

Step 6700/29999, Sim Time: 2569.447s (+4.491e-01s), Max Depth: 0.8651318274m, Max Vel: 0.9835859835m/s, Area: 141250.0m², Vol: 44512.4m³

Step 6800/29999, Sim Time: 2614.358s (+4.491e-01s), Max Depth: 0.8650139393m, Max Vel: 0.9833296645m/s, Area: 141350.0m², Vol: 44647.1m³

Step 6900/29999, Sim Time: 2659.273s (+4.492e-01s), Max Depth: 0.8649672038m, Max Vel: 0.9832476635m/s, Area: 141600.0m², Vol: 44784.6m³

Step 7000/29999, Sim Time: 2704.187s (+4.491e-01s), Max Depth: 0.8650228451m, Max Vel: 0.9833076816m/s, Area: 141700.0m², Vol: 44925.1m³

Step 7100/29999, Sim Time: 2749.099s (+4.491e-01s), Max Depth: 0.8651802933m, Max Vel: 0.9834052430m/s, Area: 141825.0m², Vol: 45067.5m³

Step 7200/29999, Sim Time: 2794.006s (+4.490e-01s), Max Depth: 0.8653888240m, Max Vel: 0.9835948240m/s, Area: 142025.0m², Vol: 45212.3m³

Step 7300/29999, Sim Time: 2838.906s (+4.490e-01s), Max Depth: 0.8655603102m, Max Vel: 0.9838260096m/s, Area: 142100.0m², Vol: 45359.3m³

Step 7400/29999, Sim Time: 2883.800s (+4.489e-01s), Max Depth: 0.8657514815m, Max Vel: 0.9840830161m/s, Area: 142300.0m², Vol: 45508.3m³

Step 7500/29999, Sim Time: 2928.686s (+4.488e-01s), Max Depth: 0.8660167893m, Max Vel: 0.9843487472m/s, Area: 142425.0m², Vol: 45660.0m³

Step 7600/29999, Sim Time: 2973.564s (+4.487e-01s), Max Depth: 0.8663425674m, Max Vel: 0.9846345960m/s, Area: 142675.0m², Vol: 45814.2m³

Step 7700/29999, Sim Time: 3018.434s (+4.487e-01s), Max Depth: 0.8665800559m, Max Vel: 0.9849352858m/s, Area: 142950.0m², Vol: 45971.4m³

Step 7800/29999, Sim Time: 3063.294s (+4.486e-01s), Max Depth: 0.8667988719m, Max Vel: 0.9852690147m/s, Area: 143175.0m², Vol: 46131.8m³

Step 7900/29999, Sim Time: 3108.146s (+4.485e-01s), Max Depth: 0.8670778703m, Max Vel: 0.9855386151m/s, Area: 143350.0m², Vol: 46294.8m³

Step 8000/29999, Sim Time: 3152.990s (+4.484e-01s), Max Depth: 0.8673580365m, Max Vel: 0.9857965788m/s, Area: 143350.0m², Vol: 46459.1m³

Step 8100/29999, Sim Time: 3197.828s (+4.483e-01s), Max Depth: 0.8675201001m, Max Vel: 0.9859992079m/s, Area: 143600.0m², Vol: 46623.1m³

Step 8200/29999, Sim Time: 3242.660s (+4.483e-01s), Max Depth: 0.8675889012m, Max Vel: 0.9861513588m/s, Area: 144000.0m², Vol: 46786.9m³

Step 8300/29999, Sim Time: 3287.490s (+4.483e-01s), Max Depth: 0.8676676506m, Max Vel: 0.9862263078m/s, Area: 144150.0m², Vol: 46951.0m³

Step 8400/29999, Sim Time: 3332.318s (+4.483e-01s), Max Depth: 0.8677348859m, Max Vel: 0.9862519993m/s, Area: 144225.0m², Vol: 47114.3m³

Step 8500/29999, Sim Time: 3377.146s (+4.483e-01s), Max Depth: 0.8677018108m, Max Vel: 0.9862307240m/s, Area: 144375.0m², Vol: 47276.8m³

Step 8600/29999, Sim Time: 3421.976s (+4.483e-01s), Max Depth: 0.8675925859m, Max Vel: 0.9861422229m/s, Area: 144425.0m², Vol: 47438.0m³

Step 8700/29999, Sim Time: 3466.808s (+4.483e-01s), Max Depth: 0.8675378491m, Max Vel: 0.9860372505m/s, Area: 144575.0m², Vol: 47598.1m³

Step 8800/29999, Sim Time: 3511.642s (+4.484e-01s), Max Depth: 0.8674917548m, Max Vel: 0.9859672057m/s, Area: 144925.0m², Vol: 47757.7m³

Step 8900/29999, Sim Time: 3556.480s (+4.484e-01s), Max Depth: 0.8673830972m, Max Vel: 0.9857999201m/s, Area: 145150.0m², Vol: 47917.0m³

Step 9000/29999, Sim Time: 3601.322s (+4.484e-01s), Max Depth: 0.8672182151m, Max Vel: 0.9856242357m/s, Area: 145250.0m², Vol: 48074.8m³

Step 9100/29999, Sim Time: 3646.167s (+4.485e-01s), Max Depth: 0.8671049248m, Max Vel: 0.9854921889m/s, Area: 145475.0m², Vol: 48230.3m³

Step 9200/29999, Sim Time: 3691.018s (+4.485e-01s), Max Depth: 0.8669855594m, Max Vel: 0.9853617602m/s, Area: 145550.0m², Vol: 48384.2m³

Step 9300/29999, Sim Time: 3735.873s (+4.486e-01s), Max Depth: 0.8668465814m, Max Vel: 0.9851245928m/s, Area: 145750.0m², Vol: 48536.3m³

Step 9400/29999, Sim Time: 3780.733s (+4.486e-01s), Max Depth: 0.8666789326m, Max Vel: 0.9849058776m/s, Area: 145975.0m², Vol: 48686.7m³

Step 9500/29999, Sim Time: 3825.598s (+4.487e-01s), Max Depth: 0.8665424119m, Max Vel: 0.9847832771m/s, Area: 146125.0m², Vol: 48835.4m³

Step 9600/29999, Sim Time: 3870.468s (+4.487e-01s), Max Depth: 0.8664180280m, Max Vel: 0.9846126529m/s, Area: 146300.0m², Vol: 48980.9m³

Step 9700/29999, Sim Time: 3915.342s (+4.488e-01s), Max Depth: 0.8663064399m, Max Vel: 0.9843948565m/s, Area: 146400.0m², Vol: 49123.9m³

Step 9800/29999, Sim Time: 3960.220s (+4.488e-01s), Max Depth: 0.8661776876m, Max Vel: 0.9841951355m/s, Area: 146575.0m², Vol: 49264.1m³

Step 9900/29999, Sim Time: 4005.104s (+4.488e-01s), Max Depth: 0.8660295651m, Max Vel: 0.9841073205m/s, Area: 146700.0m², Vol: 49402.2m³

Step 10000/29999, Sim Time: 4049.991s (+4.489e-01s), Max Depth: 0.8659201916m, Max Vel: 0.9839301249m/s, Area: 146875.0m², Vol: 49537.9m³

Step 10100/29999, Sim Time: 4094.881s (+4.489e-01s), Max Depth: 0.8658481584m, Max Vel: 0.9837567563m/s, Area: 146975.0m², Vol: 49671.1m³

Step 10200/29999, Sim Time: 4139.776s (+4.490e-01s), Max Depth: 0.8657681872m, Max Vel: 0.9836056507m/s, Area: 147125.0m², Vol: 49802.2m³

Step 10300/29999, Sim Time: 4184.673s (+4.490e-01s), Max Depth: 0.8656328624m, Max Vel: 0.9835440880m/s, Area: 147200.0m², Vol: 49930.5m³

Step 10400/29999, Sim Time: 4229.574s (+4.490e-01s), Max Depth: 0.8655564859m, Max Vel: 0.9834023564m/s, Area: 147450.0m², Vol: 50056.2m³

Step 10500/29999, Sim Time: 4274.477s (+4.490e-01s), Max Depth: 0.8655354604m, Max Vel: 0.9832824912m/s, Area: 147575.0m², Vol: 50180.2m³

Step 10600/29999, Sim Time: 4319.382s (+4.491e-01s), Max Depth: 0.8654998208m, Max Vel: 0.9831932819m/s, Area: 147750.0m², Vol: 50301.5m³

Step 10700/29999, Sim Time: 4364.289s (+4.491e-01s), Max Depth: 0.8653877147m, Max Vel: 0.9831566924m/s, Area: 147800.0m², Vol: 50420.0m³

Step 10800/29999, Sim Time: 4409.198s (+4.491e-01s), Max Depth: 0.8653308719m, Max Vel: 0.9830570505m/s, Area: 147900.0m², Vol: 50535.0m³

Step 10900/29999, Sim Time: 4454.109s (+4.491e-01s), Max Depth: 0.8653380232m, Max Vel: 0.9829789562m/s, Area: 148025.0m², Vol: 50646.6m³

Step 11000/29999, Sim Time: 4499.021s (+4.491e-01s), Max Depth: 0.8653286419m, Max Vel: 0.9829258610m/s, Area: 148100.0m², Vol: 50754.7m³

Step 11100/29999, Sim Time: 4543.935s (+4.491e-01s), Max Depth: 0.8652348779m, Max Vel: 0.9828899801m/s, Area: 148175.0m², Vol: 50858.5m³

Step 11200/29999, Sim Time: 4588.850s (+4.492e-01s), Max Depth: 0.8651844667m, Max Vel: 0.9828301856m/s, Area: 148200.0m², Vol: 50958.4m³

Step 11300/29999, Sim Time: 4633.766s (+4.492e-01s), Max Depth: 0.8651928899m, Max Vel: 0.9826511825m/s, Area: 148250.0m², Vol: 51054.8m³

Step 11400/29999, Sim Time: 4678.683s (+4.492e-01s), Max Depth: 0.8652189381m, Max Vel: 0.9828206706m/s, Area: 148275.0m², Vol: 51148.0m³

Step 11500/29999, Sim Time: 4723.600s (+4.492e-01s), Max Depth: 0.8651659460m, Max Vel: 0.9827733292m/s, Area: 148375.0m², Vol: 51238.2m³

Step 11600/29999, Sim Time: 4768.517s (+4.492e-01s), Max Depth: 0.8650786061m, Max Vel: 0.9827694122m/s, Area: 148500.0m², Vol: 51326.0m³

Step 11700/29999, Sim Time: 4813.437s (+4.492e-01s), Max Depth: 0.8650699395m, Max Vel: 0.9826888003m/s, Area: 148550.0m², Vol: 51412.2m³

Step 11800/29999, Sim Time: 4858.357s (+4.492e-01s), Max Depth: 0.8650823068m, Max Vel: 0.9826288265m/s, Area: 148625.0m², Vol: 51496.2m³

Step 11900/29999, Sim Time: 4903.278s (+4.492e-01s), Max Depth: 0.8650336265m, Max Vel: 0.9826158302m/s, Area: 148725.0m², Vol: 51578.0m³

Step 12000/29999, Sim Time: 4948.200s (+4.492e-01s), Max Depth: 0.8649646232m, Max Vel: 0.9825820971m/s, Area: 148775.0m², Vol: 51657.8m³

Step 12100/29999, Sim Time: 4993.123s (+4.492e-01s), Max Depth: 0.8649771438m, Max Vel: 0.9825506171m/s, Area: 148950.0m², Vol: 51736.1m³

Step 12200/29999, Sim Time: 5038.046s (+4.492e-01s), Max Depth: 0.8650204683m, Max Vel: 0.9825177325m/s, Area: 148975.0m², Vol: 51812.9m³

Step 12300/29999, Sim Time: 5082.970s (+4.492e-01s), Max Depth: 0.8649984412m, Max Vel: 0.9825214459m/s, Area: 149150.0m², Vol: 51887.9m³

Step 12400/29999, Sim Time: 5127.894s (+4.492e-01s), Max Depth: 0.8649425605m, Max Vel: 0.9824996128m/s, Area: 149200.0m², Vol: 51961.2m³

Step 12500/29999, Sim Time: 5172.818s (+4.492e-01s), Max Depth: 0.8649545543m, Max Vel: 0.9824855620m/s, Area: 149200.0m², Vol: 52032.0m³

Step 12600/29999, Sim Time: 5217.742s (+4.492e-01s), Max Depth: 0.8650067264m, Max Vel: 0.9824632225m/s, Area: 149275.0m², Vol: 52100.4m³

Step 12700/29999, Sim Time: 5262.666s (+4.492e-01s), Max Depth: 0.8649975362m, Max Vel: 0.9824638673m/s, Area: 149325.0m², Vol: 52166.7m³

Step 12800/29999, Sim Time: 5307.591s (+4.493e-01s), Max Depth: 0.8649380493m, Max Vel: 0.9824365655m/s, Area: 149400.0m², Vol: 52230.6m³

Step 12900/29999, Sim Time: 5352.516s (+4.493e-01s), Max Depth: 0.8649315995m, Max Vel: 0.9824192319m/s, Area: 149400.0m², Vol: 52292.4m³

Step 13000/29999, Sim Time: 5397.441s (+4.493e-01s), Max Depth: 0.8649782354m, Max Vel: 0.9823875966m/s, Area: 149550.0m², Vol: 52352.1m³

Step 13100/29999, Sim Time: 5442.367s (+4.493e-01s), Max Depth: 0.8649742318m, Max Vel: 0.9823781116m/s, Area: 149625.0m², Vol: 52410.5m³

Step 13200/29999, Sim Time: 5487.294s (+4.493e-01s), Max Depth: 0.8649038378m, Max Vel: 0.9823325694m/s, Area: 149650.0m², Vol: 52467.3m³

Step 13300/29999, Sim Time: 5532.221s (+4.493e-01s), Max Depth: 0.8648708498m, Max Vel: 0.9822923585m/s, Area: 149775.0m², Vol: 52522.2m³

Step 13400/29999, Sim Time: 5577.149s (+4.493e-01s), Max Depth: 0.8649065213m, Max Vel: 0.9822524245m/s, Area: 149800.0m², Vol: 52575.7m³

Step 13500/29999, Sim Time: 5622.078s (+4.493e-01s), Max Depth: 0.8649041579m, Max Vel: 0.9822228372m/s, Area: 149875.0m², Vol: 52627.5m³

Step 13600/29999, Sim Time: 5667.008s (+4.493e-01s), Max Depth: 0.8648312031m, Max Vel: 0.9821709946m/s, Area: 149900.0m², Vol: 52677.8m³

Step 13700/29999, Sim Time: 5711.939s (+4.493e-01s), Max Depth: 0.8647759039m, Max Vel: 0.9821140555m/s, Area: 149925.0m², Vol: 52726.3m³

Step 13800/29999, Sim Time: 5756.870s (+4.493e-01s), Max Depth: 0.8647963270m, Max Vel: 0.9820731977m/s, Area: 149950.0m², Vol: 52773.1m³

Step 13900/29999, Sim Time: 5801.804s (+4.493e-01s), Max Depth: 0.8647972852m, Max Vel: 0.9820305901m/s, Area: 150000.0m², Vol: 52818.0m³

Step 14000/29999, Sim Time: 5846.738s (+4.494e-01s), Max Depth: 0.8647259014m, Max Vel: 0.9819630676m/s, Area: 150100.0m², Vol: 52861.5m³

Step 14100/29999, Sim Time: 5891.673s (+4.494e-01s), Max Depth: 0.8646566394m, Max Vel: 0.9819068376m/s, Area: 150125.0m², Vol: 52903.7m³

Step 14200/29999, Sim Time: 5936.610s (+4.494e-01s), Max Depth: 0.8646579671m, Max Vel: 0.9818642777m/s, Area: 150125.0m², Vol: 52944.5m³

Step 14300/29999, Sim Time: 5981.548s (+4.494e-01s), Max Depth: 0.8646609195m, Max Vel: 0.9818084780m/s, Area: 150125.0m², Vol: 52983.9m³

Step 14400/29999, Sim Time: 6026.488s (+4.494e-01s), Max Depth: 0.8645983941m, Max Vel: 0.9817429295m/s, Area: 150225.0m², Vol: 53022.1m³

Step 14500/29999, Sim Time: 6071.429s (+4.494e-01s), Max Depth: 0.8645258317m, Max Vel: 0.9816785161m/s, Area: 150225.0m², Vol: 53059.6m³

Step 14600/29999, Sim Time: 6116.371s (+4.494e-01s), Max Depth: 0.8645054245m, Max Vel: 0.9816535723m/s, Area: 150225.0m², Vol: 53096.1m³

Step 14700/29999, Sim Time: 6161.314s (+4.494e-01s), Max Depth: 0.8645096936m, Max Vel: 0.9815819441m/s, Area: 150200.0m², Vol: 53131.7m³

Step 14800/29999, Sim Time: 6206.259s (+4.495e-01s), Max Depth: 0.8644634890m, Max Vel: 0.9815242401m/s, Area: 150225.0m², Vol: 53166.4m³

Step 14900/29999, Sim Time: 6251.205s (+4.495e-01s), Max Depth: 0.8643890325m, Max Vel: 0.9814670871m/s, Area: 150200.0m², Vol: 53200.4m³

Step 15000/29999, Sim Time: 6296.152s (+4.495e-01s), Max Depth: 0.8643473944m, Max Vel: 0.9814494429m/s, Area: 150200.0m², Vol: 53233.7m³

Step 15100/29999, Sim Time: 6341.101s (+4.495e-01s), Max Depth: 0.8643530818m, Max Vel: 0.9813733592m/s, Area: 150250.0m², Vol: 53266.6m³

Step 15200/29999, Sim Time: 6386.051s (+4.495e-01s), Max Depth: 0.8643265421m, Max Vel: 0.9813223404m/s, Area: 150300.0m², Vol: 53299.2m³

Step 15300/29999, Sim Time: 6431.002s (+4.495e-01s), Max Depth: 0.8642496598m, Max Vel: 0.9812791803m/s, Area: 150250.0m², Vol: 53331.1m³

Step 15400/29999, Sim Time: 6475.955s (+4.495e-01s), Max Depth: 0.8641862637m, Max Vel: 0.9812499170m/s, Area: 150250.0m², Vol: 53362.3m³

Step 15500/29999, Sim Time: 6520.909s (+4.495e-01s), Max Depth: 0.8641775360m, Max Vel: 0.9811845809m/s, Area: 150275.0m², Vol: 53393.4m³

Step 15600/29999, Sim Time: 6565.864s (+4.496e-01s), Max Depth: 0.8641501769m, Max Vel: 0.9811104340m/s, Area: 150300.0m², Vol: 53424.0m³

Step 15700/29999, Sim Time: 6610.822s (+4.496e-01s), Max Depth: 0.8640555703m, Max Vel: 0.9810718568m/s, Area: 150275.0m², Vol: 53454.0m³

Step 15800/29999, Sim Time: 6655.781s (+4.496e-01s), Max Depth: 0.8639468175m, Max Vel: 0.9810063234m/s, Area: 150300.0m², Vol: 53483.5m³

Step 15900/29999, Sim Time: 6700.743s (+4.496e-01s), Max Depth: 0.8639157179m, Max Vel: 0.9809169882m/s, Area: 150325.0m², Vol: 53512.5m³

Step 16000/29999, Sim Time: 6745.706s (+4.496e-01s), Max Depth: 0.8639157923m, Max Vel: 0.9808467582m/s, Area: 150425.0m², Vol: 53541.5m³

Step 16100/29999, Sim Time: 6790.671s (+4.497e-01s), Max Depth: 0.8638242248m, Max Vel: 0.9808225367m/s, Area: 150425.0m², Vol: 53570.6m³

Step 16200/29999, Sim Time: 6835.638s (+4.497e-01s), Max Depth: 0.8637140147m, Max Vel: 0.9807539056m/s, Area: 150475.0m², Vol: 53599.6m³

Step 16300/29999, Sim Time: 6880.607s (+4.497e-01s), Max Depth: 0.8636791925m, Max Vel: 0.9806850684m/s, Area: 150525.0m², Vol: 53629.0m³

Step 16400/29999, Sim Time: 6925.577s (+4.497e-01s), Max Depth: 0.8636903205m, Max Vel: 0.9806151005m/s, Area: 150500.0m², Vol: 53659.2m³

Step 16500/29999, Sim Time: 6970.550s (+4.497e-01s), Max Depth: 0.8636030691m, Max Vel: 0.9806055311m/s, Area: 150525.0m², Vol: 53690.1m³

Step 16600/29999, Sim Time: 7015.524s (+4.498e-01s), Max Depth: 0.8634798885m, Max Vel: 0.9805212367m/s, Area: 150500.0m², Vol: 53721.6m³

Step 16700/29999, Sim Time: 7060.500s (+4.498e-01s), Max Depth: 0.8634313945m, Max Vel: 0.9804497589m/s, Area: 150500.0m², Vol: 53753.8m³

Step 16800/29999, Sim Time: 7105.478s (+4.498e-01s), Max Depth: 0.8634445639m, Max Vel: 0.9804064893m/s, Area: 150525.0m², Vol: 53787.9m³

Step 16900/29999, Sim Time: 7150.458s (+4.498e-01s), Max Depth: 0.8633594555m, Max Vel: 0.9803725477m/s, Area: 150575.0m², Vol: 53825.5m³

Step 17000/29999, Sim Time: 7195.439s (+4.498e-01s), Max Depth: 0.8632199801m, Max Vel: 0.9802865768m/s, Area: 150625.0m², Vol: 53868.4m³

Step 17100/29999, Sim Time: 7240.424s (+4.499e-01s), Max Depth: 0.8631035873m, Max Vel: 0.9801598842m/s, Area: 150575.0m², Vol: 53920.8m³

Step 17200/29999, Sim Time: 7285.412s (+4.499e-01s), Max Depth: 0.8630631010m, Max Vel: 0.9800940086m/s, Area: 150750.0m², Vol: 53993.8m³

Step 17300/29999, Sim Time: 7330.404s (+4.499e-01s), Max Depth: 0.8629631896m, Max Vel: 0.9799845671m/s, Area: 150950.0m², Vol: 54117.3m³

Step 17400/29999, Sim Time: 7375.398s (+4.500e-01s), Max Depth: 0.8628233177m, Max Vel: 0.9798700198m/s, Area: 151000.0m², Vol: 54290.1m³

Step 17500/29999, Sim Time: 7420.394s (+4.500e-01s), Max Depth: 0.8627556610m, Max Vel: 0.9797858602m/s, Area: 151050.0m², Vol: 54486.9m³

Step 17600/29999, Sim Time: 7465.393s (+4.500e-01s), Max Depth: 0.8627402494m, Max Vel: 0.9797695774m/s, Area: 151225.0m², Vol: 54663.3m³

Step 17700/29999, Sim Time: 7510.394s (+4.500e-01s), Max Depth: 0.8626857578m, Max Vel: 0.9796837191m/s, Area: 151400.0m², Vol: 54815.4m³

Step 17800/29999, Sim Time: 7555.397s (+4.500e-01s), Max Depth: 0.8625609700m, Max Vel: 0.9795995676m/s, Area: 151525.0m², Vol: 54948.4m³

Step 17900/29999, Sim Time: 7600.402s (+4.501e-01s), Max Depth: 0.8624662401m, Max Vel: 0.9795204185m/s, Area: 151625.0m², Vol: 55062.8m³

Step 18000/29999, Sim Time: 7645.410s (+4.501e-01s), Max Depth: 0.8624116958m, Max Vel: 0.9794781532m/s, Area: 151600.0m², Vol: 55169.7m³

Step 18100/29999, Sim Time: 7690.420s (+4.501e-01s), Max Depth: 0.8623705034m, Max Vel: 0.9793723342m/s, Area: 151750.0m², Vol: 55273.8m³

Step 18200/29999, Sim Time: 7735.432s (+4.501e-01s), Max Depth: 0.8622757285m, Max Vel: 0.9792680869m/s, Area: 151825.0m², Vol: 55376.1m³

Step 18300/29999, Sim Time: 7780.447s (+4.502e-01s), Max Depth: 0.8621714583m, Max Vel: 0.9792219028m/s, Area: 151950.0m², Vol: 55469.2m³

Step 18400/29999, Sim Time: 7825.465s (+4.502e-01s), Max Depth: 0.8620778152m, Max Vel: 0.9791590269m/s, Area: 151975.0m², Vol: 55552.6m³

Step 18500/29999, Sim Time: 7870.485s (+4.502e-01s), Max Depth: 0.8619704656m, Max Vel: 0.9790064073m/s, Area: 152000.0m², Vol: 55629.2m³

Step 18600/29999, Sim Time: 7915.511s (+4.503e-01s), Max Depth: 0.8618172171m, Max Vel: 0.9788360951m/s, Area: 152100.0m², Vol: 55700.6m³

Step 18700/29999, Sim Time: 7960.541s (+4.503e-01s), Max Depth: 0.8616093365m, Max Vel: 0.9787571055m/s, Area: 152100.0m², Vol: 55767.6m³

Step 18800/29999, Sim Time: 8005.577s (+4.504e-01s), Max Depth: 0.8614257386m, Max Vel: 0.9785475255m/s, Area: 152075.0m², Vol: 55830.4m³

Step 18900/29999, Sim Time: 8050.617s (+4.504e-01s), Max Depth: 0.8613279927m, Max Vel: 0.9783813124m/s, Area: 152075.0m², Vol: 55888.6m³

Step 19000/29999, Sim Time: 8095.661s (+4.505e-01s), Max Depth: 0.8612633714m, Max Vel: 0.9782443189m/s, Area: 152150.0m², Vol: 55942.3m³

Step 19100/29999, Sim Time: 8140.710s (+4.505e-01s), Max Depth: 0.8610962522m, Max Vel: 0.9781895012m/s, Area: 152225.0m², Vol: 55992.1m³

Step 19200/29999, Sim Time: 8185.761s (+4.505e-01s), Max Depth: 0.8609645599m, Max Vel: 0.9780309635m/s, Area: 152275.0m², Vol: 56039.2m³

Step 19300/29999, Sim Time: 8230.815s (+4.506e-01s), Max Depth: 0.8609255386m, Max Vel: 0.9779169441m/s, Area: 152275.0m², Vol: 56084.8m³

Step 19400/29999, Sim Time: 8275.872s (+4.506e-01s), Max Depth: 0.8608966499m, Max Vel: 0.9778255625m/s, Area: 152300.0m², Vol: 56129.6m³

Step 19500/29999, Sim Time: 8320.933s (+4.506e-01s), Max Depth: 0.8607112414m, Max Vel: 0.9777385784m/s, Area: 152325.0m², Vol: 56174.2m³

Step 19600/29999, Sim Time: 8365.998s (+4.507e-01s), Max Depth: 0.8605159376m, Max Vel: 0.9775541915m/s, Area: 152350.0m², Vol: 56218.4m³

Step 19700/29999, Sim Time: 8411.067s (+4.507e-01s), Max Depth: 0.8604067189m, Max Vel: 0.9773550937m/s, Area: 152350.0m², Vol: 56262.9m³

Step 19800/29999, Sim Time: 8456.142s (+4.508e-01s), Max Depth: 0.8603143958m, Max Vel: 0.9772211273m/s, Area: 152475.0m², Vol: 56308.5m³

Step 19900/29999, Sim Time: 8501.222s (+4.508e-01s), Max Depth: 0.8601107566m, Max Vel: 0.9770387105m/s, Area: 152525.0m², Vol: 56356.7m³

Step 20000/29999, Sim Time: 8546.306s (+4.509e-01s), Max Depth: 0.8598861253m, Max Vel: 0.9768283814m/s, Area: 152600.0m², Vol: 56408.8m³

Step 20100/29999, Sim Time: 8591.396s (+4.509e-01s), Max Depth: 0.8598642283m, Max Vel: 0.9766293820m/s, Area: 152575.0m², Vol: 56467.0m³

Step 20200/29999, Sim Time: 8636.483s (+4.508e-01s), Max Depth: 0.8606105278m, Max Vel: 0.9765197603m/s, Area: 152550.0m², Vol: 56537.2m³

Step 20300/29999, Sim Time: 8681.559s (+4.509e-01s), Max Depth: 0.8590129381m, Max Vel: 0.9762834842m/s, Area: 152575.0m², Vol: 56547.1m³

Step 20400/29999, Sim Time: 8726.655s (+4.506e-01s), Max Depth: 0.8576508723m, Max Vel: 0.9760770900m/s, Area: 152675.0m², Vol: 56448.4m³

Step 20500/29999, Sim Time: 8771.643s (+4.494e-01s), Max Depth: 0.8565238110m, Max Vel: 0.9758848656m/s, Area: 152725.0m², Vol: 56348.9m³

Step 20600/29999, Sim Time: 8816.559s (+4.490e-01s), Max Depth: 0.8542674431m, Max Vel: 0.9757223603m/s, Area: 152825.0m², Vol: 56051.4m³

Step 20700/29999, Sim Time: 8861.449s (+4.489e-01s), Max Depth: 0.8529195876m, Max Vel: 0.9754387381m/s, Area: 152800.0m², Vol: 55930.1m³

Step 20800/29999, Sim Time: 8906.345s (+4.490e-01s), Max Depth: 0.8516823994m, Max Vel: 0.9751947675m/s, Area: 152825.0m², Vol: 55871.7m³

Step 20900/29999, Sim Time: 8951.247s (+4.491e-01s), Max Depth: 0.8500034211m, Max Vel: 0.9750799308m/s, Area: 152825.0m², Vol: 55727.9m³

Step 21000/29999, Sim Time: 8996.155s (+4.491e-01s), Max Depth: 0.8488501165m, Max Vel: 0.9748528763m/s, Area: 152800.0m², Vol: 55668.6m³

Step 21100/29999, Sim Time: 9041.071s (+4.492e-01s), Max Depth: 0.8475428803m, Max Vel: 0.9746448749m/s, Area: 152825.0m², Vol: 55593.4m³

Step 21200/29999, Sim Time: 9085.992s (+4.492e-01s), Max Depth: 0.8463197650m, Max Vel: 0.9744228913m/s, Area: 152850.0m², Vol: 55538.4m³

Step 21300/29999, Sim Time: 9130.920s (+4.493e-01s), Max Depth: 0.8447650129m, Max Vel: 0.9742797186m/s, Area: 152850.0m², Vol: 55428.0m³

Step 21400/29999, Sim Time: 9175.848s (+4.493e-01s), Max Depth: 0.8439115627m, Max Vel: 0.9739790050m/s, Area: 152825.0m², Vol: 55380.4m³

Step 21500/29999, Sim Time: 9220.777s (+4.493e-01s), Max Depth: 0.8422410988m, Max Vel: 0.9736976246m/s, Area: 152775.0m², Vol: 55237.2m³

Step 21600/29999, Sim Time: 9265.708s (+4.493e-01s), Max Depth: 0.8409872214m, Max Vel: 0.9734922695m/s, Area: 152800.0m², Vol: 55160.3m³

Step 21700/29999, Sim Time: 9310.643s (+4.494e-01s), Max Depth: 0.8395631001m, Max Vel: 0.9731962492m/s, Area: 152775.0m², Vol: 55074.5m³

Step 21800/29999, Sim Time: 9355.583s (+4.494e-01s), Max Depth: 0.8384102334m, Max Vel: 0.9727886076m/s, Area: 152775.0m², Vol: 55010.0m³

Step 21900/29999, Sim Time: 9400.526s (+4.495e-01s), Max Depth: 0.8368654027m, Max Vel: 0.9723608623m/s, Area: 152750.0m², Vol: 54885.9m³

Step 22000/29999, Sim Time: 9445.474s (+4.495e-01s), Max Depth: 0.8357028899m, Max Vel: 0.9721153176m/s, Area: 152725.0m², Vol: 54812.0m³

Step 22100/29999, Sim Time: 9490.427s (+4.495e-01s), Max Depth: 0.8344709112m, Max Vel: 0.9716016040m/s, Area: 152800.0m², Vol: 54747.6m³

Step 22200/29999, Sim Time: 9535.384s (+4.496e-01s), Max Depth: 0.8331882765m, Max Vel: 0.9711352300m/s, Area: 152800.0m², Vol: 54668.1m³

Step 22300/29999, Sim Time: 9580.346s (+4.497e-01s), Max Depth: 0.8318867403m, Max Vel: 0.9706518934m/s, Area: 152850.0m², Vol: 54584.0m³

Step 22400/29999, Sim Time: 9625.317s (+4.497e-01s), Max Depth: 0.8302614750m, Max Vel: 0.9700350490m/s, Area: 152850.0m², Vol: 54478.9m³

Step 22500/29999, Sim Time: 9670.295s (+4.498e-01s), Max Depth: 0.8290765048m, Max Vel: 0.9691301569m/s, Area: 152800.0m², Vol: 54393.9m³

Step 22600/29999, Sim Time: 9715.281s (+4.499e-01s), Max Depth: 0.8277643201m, Max Vel: 0.9684338395m/s, Area: 152700.0m², Vol: 54298.8m³

Step 22700/29999, Sim Time: 9760.275s (+4.500e-01s), Max Depth: 0.8263598744m, Max Vel: 0.9680715734m/s, Area: 152700.0m², Vol: 54199.4m³

Step 22800/29999, Sim Time: 9805.276s (+4.500e-01s), Max Depth: 0.8251551122m, Max Vel: 0.9673047825m/s, Area: 152725.0m², Vol: 54122.5m³

Step 22900/29999, Sim Time: 9850.282s (+4.501e-01s), Max Depth: 0.8238820100m, Max Vel: 0.9667758270m/s, Area: 152675.0m², Vol: 54029.5m³

Step 23000/29999, Sim Time: 9895.292s (+4.500e-01s), Max Depth: 0.8224800341m, Max Vel: 0.9674982353m/s, Area: 152625.0m², Vol: 53927.9m³

Step 23100/29999, Sim Time: 9940.299s (+4.501e-01s), Max Depth: 0.8212019988m, Max Vel: 0.9667443128m/s, Area: 152550.0m², Vol: 53833.8m³

Step 23200/29999, Sim Time: 9985.314s (+4.501e-01s), Max Depth: 0.8198726354m, Max Vel: 0.9667999823m/s, Area: 152475.0m², Vol: 53732.1m³

Step 23300/29999, Sim Time: 10030.333s (+4.503e-01s), Max Depth: 0.8185400129m, Max Vel: 0.9652289848m/s, Area: 152500.0m², Vol: 53641.1m³

Step 23400/29999, Sim Time: 10075.354s (+4.503e-01s), Max Depth: 0.8171973655m, Max Vel: 0.9652079478m/s, Area: 152475.0m², Vol: 53551.0m³

Step 23500/29999, Sim Time: 10120.381s (+4.503e-01s), Max Depth: 0.8159024768m, Max Vel: 0.9651067625m/s, Area: 152450.0m², Vol: 53466.4m³

Step 23600/29999, Sim Time: 10165.411s (+4.502e-01s), Max Depth: 0.8147238810m, Max Vel: 0.9661296052m/s, Area: 152425.0m², Vol: 53392.6m³

Step 23700/29999, Sim Time: 10210.439s (+4.503e-01s), Max Depth: 0.8134397766m, Max Vel: 0.9652651511m/s, Area: 152375.0m², Vol: 53303.5m³

Step 23800/29999, Sim Time: 10255.463s (+4.502e-01s), Max Depth: 0.8121056432m, Max Vel: 0.9658893808m/s, Area: 152350.0m², Vol: 53213.6m³

Step 23900/29999, Sim Time: 10300.483s (+4.503e-01s), Max Depth: 0.8107900112m, Max Vel: 0.9654686649m/s, Area: 152300.0m², Vol: 53117.6m³

Step 24000/29999, Sim Time: 10345.500s (+4.502e-01s), Max Depth: 0.8094452878m, Max Vel: 0.9658274403m/s, Area: 152275.0m², Vol: 53021.0m³

Step 24100/29999, Sim Time: 10390.516s (+4.501e-01s), Max Depth: 0.8082117340m, Max Vel: 0.9669369815m/s, Area: 152175.0m², Vol: 52935.9m³

Step 24200/29999, Sim Time: 10435.530s (+4.501e-01s), Max Depth: 0.8069024478m, Max Vel: 0.9670762708m/s, Area: 152100.0m², Vol: 52845.3m³

Step 24300/29999, Sim Time: 10480.539s (+4.501e-01s), Max Depth: 0.8055778543m, Max Vel: 0.9667602152m/s, Area: 152075.0m², Vol: 52755.5m³

Step 24400/29999, Sim Time: 10525.544s (+4.500e-01s), Max Depth: 0.8042553216m, Max Vel: 0.9676170903m/s, Area: 152050.0m², Vol: 52666.0m³

Step 24500/29999, Sim Time: 10570.547s (+4.501e-01s), Max Depth: 0.8029510200m, Max Vel: 0.9669923590m/s, Area: 152025.0m², Vol: 52577.6m³

Step 24600/29999, Sim Time: 10615.544s (+4.500e-01s), Max Depth: 0.8016623788m, Max Vel: 0.9677546532m/s, Area: 152050.0m², Vol: 52490.6m³

Step 24700/29999, Sim Time: 10660.537s (+4.498e-01s), Max Depth: 0.8003501129m, Max Vel: 0.9695194614m/s, Area: 152050.0m², Vol: 52401.9m³

Step 24800/29999, Sim Time: 10705.522s (+4.498e-01s), Max Depth: 0.7991587345m, Max Vel: 0.9693075663m/s, Area: 152025.0m², Vol: 52323.9m³

Step 24900/29999, Sim Time: 10750.498s (+4.497e-01s), Max Depth: 0.7978112934m, Max Vel: 0.9700079925m/s, Area: 151950.0m², Vol: 52231.3m³

Step 25000/29999, Sim Time: 10795.465s (+4.497e-01s), Max Depth: 0.7965391882m, Max Vel: 0.9707123877m/s, Area: 151925.0m², Vol: 52147.8m³

Step 25100/29999, Sim Time: 10840.423s (+4.496e-01s), Max Depth: 0.7953010077m, Max Vel: 0.9714723152m/s, Area: 151775.0m², Vol: 52064.0m³

Step 25200/29999, Sim Time: 10885.372s (+4.494e-01s), Max Depth: 0.7939875541m, Max Vel: 0.9727144105m/s, Area: 151750.0m², Vol: 51978.5m³

Step 25300/29999, Sim Time: 10930.313s (+4.493e-01s), Max Depth: 0.7927011880m, Max Vel: 0.9737470638m/s, Area: 151725.0m², Vol: 51894.4m³

Step 25400/29999, Sim Time: 10975.243s (+4.493e-01s), Max Depth: 0.7914002344m, Max Vel: 0.9734991173m/s, Area: 151675.0m², Vol: 51808.0m³

Step 25500/29999, Sim Time: 11020.165s (+4.491e-01s), Max Depth: 0.7901237865m, Max Vel: 0.9751996607m/s, Area: 151650.0m², Vol: 51723.5m³

Step 25600/29999, Sim Time: 11065.078s (+4.491e-01s), Max Depth: 0.7888524430m, Max Vel: 0.9752060829m/s, Area: 151625.0m², Vol: 51639.3m³

Step 25700/29999, Sim Time: 11109.983s (+4.490e-01s), Max Depth: 0.7875800987m, Max Vel: 0.9762195999m/s, Area: 151650.0m², Vol: 51556.2m³

Step 25800/29999, Sim Time: 11154.880s (+4.489e-01s), Max Depth: 0.7862817766m, Max Vel: 0.9772006408m/s, Area: 151625.0m², Vol: 51470.7m³

Step 25900/29999, Sim Time: 11199.769s (+4.488e-01s), Max Depth: 0.7850155432m, Max Vel: 0.9778769712m/s, Area: 151625.0m², Vol: 51388.5m³

Step 26000/29999, Sim Time: 11244.648s (+4.487e-01s), Max Depth: 0.7837854433m, Max Vel: 0.9785264555m/s, Area: 151600.0m², Vol: 51308.5m³

Step 26100/29999, Sim Time: 11289.520s (+4.487e-01s), Max Depth: 0.7825019800m, Max Vel: 0.9793275345m/s, Area: 151575.0m², Vol: 51224.7m³

Step 26200/29999, Sim Time: 11334.383s (+4.486e-01s), Max Depth: 0.7812501764m, Max Vel: 0.9801400937m/s, Area: 151525.0m², Vol: 51143.7m³

Step 26300/29999, Sim Time: 11379.239s (+4.485e-01s), Max Depth: 0.7799603888m, Max Vel: 0.9808918034m/s, Area: 151500.0m², Vol: 51058.5m³

Step 26400/29999, Sim Time: 11424.086s (+4.485e-01s), Max Depth: 0.7787300112m, Max Vel: 0.9809598168m/s, Area: 151475.0m², Vol: 50979.1m³

Step 26500/29999, Sim Time: 11468.925s (+4.484e-01s), Max Depth: 0.7775023451m, Max Vel: 0.9818072615m/s, Area: 151450.0m², Vol: 50900.6m³

Step 26600/29999, Sim Time: 11513.757s (+4.483e-01s), Max Depth: 0.7762887654m, Max Vel: 0.9824025428m/s, Area: 151450.0m², Vol: 50823.0m³

Step 26700/29999, Sim Time: 11558.583s (+4.482e-01s), Max Depth: 0.7750410088m, Max Vel: 0.9834747863m/s, Area: 151425.0m², Vol: 50743.3m³

Step 26800/29999, Sim Time: 11603.402s (+4.481e-01s), Max Depth: 0.7738115300m, Max Vel: 0.9838542206m/s, Area: 151350.0m², Vol: 50662.8m³

Step 26900/29999, Sim Time: 11648.215s (+4.481e-01s), Max Depth: 0.7725509276m, Max Vel: 0.9844094971m/s, Area: 151400.0m², Vol: 50581.2m³

Step 27000/29999, Sim Time: 11693.024s (+4.480e-01s), Max Depth: 0.7713057210m, Max Vel: 0.9847501439m/s, Area: 151400.0m², Vol: 50500.6m³

Step 27100/29999, Sim Time: 11737.826s (+4.481e-01s), Max Depth: 0.7700801293m, Max Vel: 0.9845553749m/s, Area: 151400.0m², Vol: 50421.5m³

Step 27200/29999, Sim Time: 11782.623s (+4.480e-01s), Max Depth: 0.7688457881m, Max Vel: 0.9853236693m/s, Area: 151375.0m², Vol: 50342.0m³

Step 27300/29999, Sim Time: 11827.417s (+4.479e-01s), Max Depth: 0.7676201029m, Max Vel: 0.9861162021m/s, Area: 151350.0m², Vol: 50263.2m³

Step 27400/29999, Sim Time: 11872.208s (+4.479e-01s), Max Depth: 0.7664100234m, Max Vel: 0.9860330241m/s, Area: 151350.0m², Vol: 50185.4m³

Step 27500/29999, Sim Time: 11916.996s (+4.478e-01s), Max Depth: 0.7651953200m, Max Vel: 0.9866528767m/s, Area: 151325.0m², Vol: 50107.0m³

Step 27600/29999, Sim Time: 11961.780s (+4.478e-01s), Max Depth: 0.7639900123m, Max Vel: 0.9867888524m/s, Area: 151275.0m², Vol: 50029.0m³

Step 27700/29999, Sim Time: 12006.562s (+4.478e-01s), Max Depth: 0.7627911008m, Max Vel: 0.9868379871m/s, Area: 151300.0m², Vol: 49952.3m³

Step 27800/29999, Sim Time: 12051.341s (+4.479e-01s), Max Depth: 0.7615603921m, Max Vel: 0.9863341500m/s, Area: 151275.0m², Vol: 49872.0m³

Step 27900/29999, Sim Time: 12096.119s (+4.477e-01s), Max Depth: 0.7603310112m, Max Vel: 0.9874553363m/s, Area: 151275.0m², Vol: 49792.0m³

Step 28000/29999, Sim Time: 12140.896s (+4.478e-01s), Max Depth: 0.7591101233m, Max Vel: 0.9869868245m/s, Area: 151275.0m², Vol: 49712.5m³

Step 28100/29999, Sim Time: 12185.672s (+4.477e-01s), Max Depth: 0.7579211040m, Max Vel: 0.9876149626m/s, Area: 151250.0m², Vol: 49635.4m³

Step 28200/29999, Sim Time: 12230.451s (+4.478e-01s), Max Depth: 0.7567100001m, Max Vel: 0.9871424122m/s, Area: 151250.0m², Vol: 49556.3m³

Step 28300/29999, Sim Time: 12275.229s (+4.478e-01s), Max Depth: 0.7554901234m, Max Vel: 0.9871680508m/s, Area: 151250.0m², Vol: 49476.4m³

Step 28400/29999, Sim Time: 12320.005s (+4.478e-01s), Max Depth: 0.7542856780m, Max Vel: 0.9873034045m/s, Area: 151225.0m², Vol: 49398.4m³

Step 28500/29999, Sim Time: 12364.779s (+4.477e-01s), Max Depth: 0.7530888899m, Max Vel: 0.9875914024m/s, Area: 151225.0m², Vol: 49321.2m³

Step 28600/29999, Sim Time: 12409.550s (+4.477e-01s), Max Depth: 0.7518509123m, Max Vel: 0.9877818280m/s, Area: 151200.0m², Vol: 49240.1m³

Step 28700/29999, Sim Time: 12454.321s (+4.477e-01s), Max Depth: 0.7506023456m, Max Vel: 0.9878121103m/s, Area: 151125.0m², Vol: 49158.1m³

Step 28800/29999, Sim Time: 12499.091s (+4.477e-01s), Max Depth: 0.7493800101m, Max Vel: 0.9878225982m/s, Area: 151125.0m², Vol: 49078.5m³

Step 28900/29999, Sim Time: 12543.861s (+4.477e-01s), Max Depth: 0.7481678900m, Max Vel: 0.9878061731m/s, Area: 151125.0m², Vol: 48999.9m³

Step 29000/29999, Sim Time: 12588.632s (+4.477e-01s), Max Depth: 0.7469123450m, Max Vel: 0.9878260724m/s, Area: 151125.0m², Vol: 48917.6m³

Step 29100/29999, Sim Time: 12633.403s (+4.477e-01s), Max Depth: 0.7456999876m, Max Vel: 0.9877754718m/s, Area: 151125.0m², Vol: 48838.9m³

Step 29200/29999, Sim Time: 12678.174s (+4.477e-01s), Max Depth: 0.7445001230m, Max Vel: 0.9877400848m/s, Area: 151125.0m², Vol: 48761.1m³

Step 29300/29999, Sim Time: 12722.945s (+4.477e-01s), Max Depth: 0.7433102345m, Max Vel: 0.9877292251m/s, Area: 151125.0m², Vol: 48683.9m³

Step 29400/29999, Sim Time: 12767.717s (+4.477e-01s), Max Depth: 0.7421012340m, Max Vel: 0.9877311952m/s, Area: 151100.0m², Vol: 48604.0m³

Step 29500/29999, Sim Time: 12812.489s (+4.477e-01s), Max Depth: 0.7408765432m, Max Vel: 0.9876891883m/s, Area: 151050.0m², Vol: 48522.7m³

Step 29600/29999, Sim Time: 12857.262s (+4.477e-01s), Max Depth: 0.7396700110m, Max Vel: 0.9876582162m/s, Area: 151025.0m², Vol: 48443.0m³

Step 29700/29999, Sim Time: 12902.034s (+4.477e-01s), Max Depth: 0.7384509870m, Max Vel: 0.9876557144m/s, Area: 150975.0m², Vol: 48362.3m³

Step 29800/29999, Sim Time: 12946.808s (+4.477e-01s), Max Depth: 0.7372300011m, Max Vel: 0.9876296666m/s, Area: 150975.0m², Vol: 48281.7m³

Step 29900/29999, Sim Time: 12991.581s (+4.477e-01s), Max Depth: 0.7360123450m, Max Vel: 0.9875827738m/s, Area: 150975.0m², Vol: 48201.5m³

Step 29999/29999, Sim Time: 13035.908s (+4.477e-01s), Max Depth: 0.7301589372m, Max Vel: 0.9875417908m/s, Area: 150925.0m², Vol: 47809.9m³

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

Final Maximum Flood Extent Area: 154725.00 m²

Peak Recorded Water Depth Anywhere: 3.289 m

Phase 2 max depth: 0.730 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\_source2\_5\_rain0\_76171875.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_source2\_5\_rain0\_76171875\_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 1.5234375 --output-freq 100 -o result\_source2\_5\_rain1\_5234375.mp4 --save --source-row 50 --source-col 1 --source-rate 2.5

--- 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 162.64 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=4.231770833333333e-07 m/s, duration=30000 steps

Added rainfall for Phase 2: 1.5234375 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337672884m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39720.2m³

Step 100/29999, Sim Time: 48.379s (+3.773e-01s), Max Depth: 1.3502337489m, Max Vel: 1.0157272435m/s, Area: 130875.0m², Vol: 39779.1m³

Step 200/29999, Sim Time: 81.335s (+2.963e-01s), Max Depth: 2.1416654014m, Max Vel: 1.3330990462m/s, Area: 130875.0m², Vol: 39819.8m³

Step 300/29999, Sim Time: 101.609s (+1.159e-01s), Max Depth: 2.6501552426m, Max Vel: 9.9999999999m/s, Area: 130900.0m², Vol: 39847.0m³

Step 400/29999, Sim Time: 113.059s (+1.132e-01s), Max Depth: 3.0424269653m, Max Vel: 9.9999999995m/s, Area: 130900.0m², Vol: 39866.2m³

Step 500/29999, Sim Time: 124.295s (+1.118e-01s), Max Depth: 3.2598770560m, Max Vel: 9.9999999990m/s, Area: 130875.0m², Vol: 39882.4m³

Step 600/29999, Sim Time: 144.667s (+2.227e-01s), Max Depth: 3.1748846463m, Max Vel: 2.2736740340m/s, Area: 130950.0m², Vol: 39911.9m³

Step 700/29999, Sim Time: 167.958s (+2.321e-01s), Max Depth: 2.8488138200m, Max Vel: 2.2543937225m/s, Area: 131100.0m², Vol: 39945.3m³

Step 800/29999, Sim Time: 185.220s (+2.746e-01s), Max Depth: 2.3407230109m, Max Vel: 1.6106534104m/s, Area: 131100.0m², Vol: 39973.5m³

Step 900/29999, Sim Time: 214.654s (+3.346e-01s), Max Depth: 1.5898443394m, Max Vel: 1.2731815522m/s, Area: 131175.0m², Vol: 40020.0m³

Step 1000/29999, Sim Time: 250.390s (+3.430e-01s), Max Depth: 1.3365994944m, Max Vel: 5.1091357693m/s, Area: 131375.0m², Vol: 40078.5m³

Step 1100/29999, Sim Time: 277.707s (+3.709e-01s), Max Depth: 1.3523334126m, Max Vel: 1.4509172068m/s, Area: 131550.0m², Vol: 40122.4m³

Step 1200/29999, Sim Time: 301.206s (+3.871e-01s), Max Depth: 1.3196487006m, Max Vel: 0.9356394510m/s, Area: 131650.0m², Vol: 40169.5m³

Step 1300/29999, Sim Time: 340.125s (+3.813e-01s), Max Depth: 1.3319369839m, Max Vel: 0.9744912060m/s, Area: 131825.0m², Vol: 40237.1m³

Step 1400/29999, Sim Time: 372.437s (+1.284e-01s), Max Depth: 1.3441991434m, Max Vel: 9.9999999991m/s, Area: 132275.0m², Vol: 40306.3m³

Step 1500/29999, Sim Time: 400.069s (+3.565e-01s), Max Depth: 1.3425783670m, Max Vel: 1.2786295447m/s, Area: 132625.0m², Vol: 40359.5m³

Step 1600/29999, Sim Time: 429.110s (+1.285e-01s), Max Depth: 1.3379369879m, Max Vel: 9.9999999990m/s, Area: 132825.0m², Vol: 40409.2m³

Step 1700/29999, Sim Time: 456.737s (+3.598e-01s), Max Depth: 1.3210541588m, Max Vel: 1.2681857389m/s, Area: 133000.0m², Vol: 40456.3m³

Step 1800/29999, Sim Time: 476.344s (+3.597e-01s), Max Depth: 1.3171168773m, Max Vel: 1.2716657100m/s, Area: 133250.0m², Vol: 40492.1m³

Step 1900/29999, Sim Time: 506.714s (+1.289e-01s), Max Depth: 1.3040208134m, Max Vel: 9.9999999991m/s, Area: 133350.0m², Vol: 40535.2m³

Step 2000/29999, Sim Time: 536.721s (+3.647e-01s), Max Depth: 1.2711922634m, Max Vel: 1.2663034459m/s, Area: 133275.0m², Vol: 40580.5m³

Step 2100/29999, Sim Time: 573.227s (+3.664e-01s), Max Depth: 1.2589548643m, Max Vel: 1.2597943130m/s, Area: 133450.0m², Vol: 40633.7m³

Step 2200/29999, Sim Time: 609.959s (+3.682e-01s), Max Depth: 1.2306691420m, Max Vel: 1.2771929217m/s, Area: 133675.0m², Vol: 40690.5m³

Step 2300/29999, Sim Time: 647.135s (+3.751e-01s), Max Depth: 1.1865863736m, Max Vel: 1.2523751230m/s, Area: 133900.0m², Vol: 40749.7m³

Step 2400/29999, Sim Time: 685.002s (+3.816e-01s), Max Depth: 1.1528774708m, Max Vel: 1.2225074282m/s, Area: 134025.0m², Vol: 40810.7m³

Step 2500/29999, Sim Time: 723.418s (+3.866e-01s), Max Depth: 1.1261393745m, Max Vel: 1.2025200195m/s, Area: 134250.0m², Vol: 40874.4m³

Step 2600/29999, Sim Time: 762.259s (+3.904e-01s), Max Depth: 1.1002338427m, Max Vel: 1.1966353483m/s, Area: 134300.0m², Vol: 40939.6m³

Step 2700/29999, Sim Time: 801.580s (+3.963e-01s), Max Depth: 1.0693603447m, Max Vel: 1.1765908460m/s, Area: 134550.0m², Vol: 41002.7m³

Step 2800/29999, Sim Time: 841.594s (+4.034e-01s), Max Depth: 1.0373794618m, Max Vel: 1.1470389018m/s, Area: 134750.0m², Vol: 41067.3m³

Step 2900/29999, Sim Time: 882.172s (+4.083e-01s), Max Depth: 1.0150348403m, Max Vel: 1.1298252112m/s, Area: 134900.0m², Vol: 41134.3m³

Step 3000/29999, Sim Time: 923.189s (+4.125e-01s), Max Depth: 0.9971645712m, Max Vel: 1.1144146494m/s, Area: 135075.0m², Vol: 41203.9m³

Step 3100/29999, Sim Time: 964.645s (+4.162e-01s), Max Depth: 0.9810582126m, Max Vel: 1.1021450489m/s, Area: 135200.0m², Vol: 41276.7m³

Step 3200/29999, Sim Time: 1006.468s (+4.196e-01s), Max Depth: 0.9665784807m, Max Vel: 1.0907766525m/s, Area: 135350.0m², Vol: 41351.1m³

Step 3300/29999, Sim Time: 1048.599s (+4.230e-01s), Max Depth: 0.9539318591m, Max Vel: 1.0773971868m/s, Area: 135550.0m², Vol: 41426.7m³

Step 3400/29999, Sim Time: 1091.027s (+4.259e-01s), Max Depth: 0.9438313191m, Max Vel: 1.0660086073m/s, Area: 135700.0m², Vol: 41504.1m³

Step 3500/29999, Sim Time: 1133.720s (+4.281e-01s), Max Depth: 0.9352057948m, Max Vel: 1.0587342182m/s, Area: 135825.0m², Vol: 41583.7m³

Step 3600/29999, Sim Time: 1176.663s (+4.304e-01s), Max Depth: 0.9255292996m, Max Vel: 1.0526936625m/s, Area: 136025.0m², Vol: 41664.8m³

Step 3700/29999, Sim Time: 1219.844s (+4.329e-01s), Max Depth: 0.9163875729m, Max Vel: 1.0435957933m/s, Area: 136225.0m², Vol: 41748.0m³

Step 3800/29999, Sim Time: 1263.255s (+4.354e-01s), Max Depth: 0.9080942362m, Max Vel: 1.0341776524m/s, Area: 136300.0m², Vol: 41832.2m³

Step 3900/29999, Sim Time: 1306.885s (+4.374e-01s), Max Depth: 0.9016768256m, Max Vel: 1.0261212447m/s, Area: 136375.0m², Vol: 41916.9m³

Step 4000/29999, Sim Time: 1350.727s (+4.392e-01s), Max Depth: 0.8952585854m, Max Vel: 1.0211520769m/s, Area: 136625.0m², Vol: 42001.9m³

Step 4100/29999, Sim Time: 1394.753s (+4.410e-01s), Max Depth: 0.8891310849m, Max Vel: 1.0149098847m/s, Area: 136775.0m², Vol: 42088.2m³

Step 4200/29999, Sim Time: 1438.927s (+4.426e-01s), Max Depth: 0.8843145391m, Max Vel: 1.0088881044m/s, Area: 136850.0m², Vol: 42175.7m³

Step 4300/29999, Sim Time: 1483.226s (+4.436e-01s), Max Depth: 0.8813202679m, Max Vel: 1.0041056712m/s, Area: 137200.0m², Vol: 42265.0m³

Step 4400/29999, Sim Time: 1527.635s (+4.444e-01s), Max Depth: 0.8787975582m, Max Vel: 1.0018105266m/s, Area: 137400.0m², Vol: 42357.2m³

Step 4500/29999, Sim Time: 1572.125s (+4.452e-01s), Max Depth: 0.8763005333m, Max Vel: 0.9990540779m/s, Area: 137650.0m², Vol: 42452.0m³

Step 4600/29999, Sim Time: 1616.670s (+4.458e-01s), Max Depth: 0.8746694411m, Max Vel: 0.9966468060m/s, Area: 137975.0m², Vol: 42549.4m³

Step 4700/29999, Sim Time: 1661.255s (+4.460e-01s), Max Depth: 0.8741120176m, Max Vel: 0.9950673001m/s, Area: 138050.0m², Vol: 42649.5m³

Step 4800/29999, Sim Time: 1705.867s (+4.461e-01s), Max Depth: 0.8737415890m, Max Vel: 0.9947254549m/s, Area: 138150.0m², Vol: 42751.0m³

Step 4900/29999, Sim Time: 1750.495s (+4.463e-01s), Max Depth: 0.8732333190m, Max Vel: 0.9940966508m/s, Area: 138225.0m², Vol: 42852.5m³

Step 5000/29999, Sim Time: 1795.133s (+4.465e-01s), Max Depth: 0.8728333532m, Max Vel: 0.9935406231m/s, Area: 138425.0m², Vol: 42953.6m³

Step 5100/29999, Sim Time: 1839.781s (+4.466e-01s), Max Depth: 0.8726203328m, Max Vel: 0.9930615136m/s, Area: 138550.0m², Vol: 43055.3m³

Step 5200/29999, Sim Time: 1884.441s (+4.466e-01s), Max Depth: 0.8724109910m, Max Vel: 0.9927899992m/s, Area: 138675.0m², Vol: 43157.1m³

Step 5300/29999, Sim Time: 1929.113s (+4.468e-01s), Max Depth: 0.8719827544m, Max Vel: 0.9923449969m/s, Area: 138850.0m², Vol: 43259.6m³

Step 5400/29999, Sim Time: 1973.797s (+4.469e-01s), Max Depth: 0.8714717782m, Max Vel: 0.9916890909m/s, Area: 138925.0m², Vol: 43364.0m³

Step 5500/29999, Sim Time: 2018.495s (+4.471e-01s), Max Depth: 0.8710571954m, Max Vel: 0.9909999014m/s, Area: 138975.0m², Vol: 43470.1m³

Step 5600/29999, Sim Time: 2063.211s (+4.472e-01s), Max Depth: 0.8706483887m, Max Vel: 0.9905588758m/s, Area: 139325.0m², Vol: 43578.4m³

Step 5700/29999, Sim Time: 2107.945s (+4.474e-01s), Max Depth: 0.8700453322m, Max Vel: 0.9898722692m/s, Area: 139475.0m², Vol: 43689.3m³

Step 5800/29999, Sim Time: 2152.697s (+4.476e-01s), Max Depth: 0.8693895491m, Max Vel: 0.9890196326m/s, Area: 139700.0m², Vol: 43802.2m³

Step 5900/29999, Sim Time: 2197.467s (+4.478e-01s), Max Depth: 0.8689211539m, Max Vel: 0.9881928650m/s, Area: 139900.0m², Vol: 43917.8m³

Step 6000/29999, Sim Time: 2242.259s (+4.480e-01s), Max Depth: 0.8683653174m, Max Vel: 0.9877492913m/s, Area: 140050.0m², Vol: 44035.6m³

Step 6100/29999, Sim Time: 2287.070s (+4.482e-01s), Max Depth: 0.8676530293m, Max Vel: 0.9869409195m/s, Area: 140225.0m², Vol: 44155.7m³

Step 6200/29999, Sim Time: 2331.901s (+4.484e-01s), Max Depth: 0.8669985374m, Max Vel: 0.9860829434m/s, Area: 140475.0m², Vol: 44279.0m³

Step 6300/29999, Sim Time: 2376.751s (+4.486e-01s), Max Depth: 0.8665883358m, Max Vel: 0.9853099221m/s, Area: 140550.0m², Vol: 44405.1m³

Step 6400/29999, Sim Time: 2421.620s (+4.487e-01s), Max Depth: 0.8660776394m, Max Vel: 0.9849853623m/s, Area: 140575.0m², Vol: 44533.8m³

Step 6500/29999, Sim Time: 2466.505s (+4.489e-01s), Max Depth: 0.8655944605m, Max Vel: 0.9842851685m/s, Area: 140875.0m², Vol: 44665.5m³

Step 6600/29999, Sim Time: 2511.400s (+4.490e-01s), Max Depth: 0.8652714951m, Max Vel: 0.9837958638m/s, Area: 141075.0m², Vol: 44801.1m³

Step 6700/29999, Sim Time: 2556.305s (+4.491e-01s), Max Depth: 0.8651945359m, Max Vel: 0.9834982485m/s, Area: 141325.0m², Vol: 44940.0m³

Step 6800/29999, Sim Time: 2601.217s (+4.491e-01s), Max Depth: 0.8650545542m, Max Vel: 0.9834475608m/s, Area: 141350.0m², Vol: 45082.3m³

Step 6900/29999, Sim Time: 2646.130s (+4.491e-01s), Max Depth: 0.8650031005m, Max Vel: 0.9832899083m/s, Area: 141600.0m², Vol: 45227.0m³

Step 7000/29999, Sim Time: 2691.044s (+4.491e-01s), Max Depth: 0.8650525751m, Max Vel: 0.9833085946m/s, Area: 141725.0m², Vol: 45374.9m³

Step 7100/29999, Sim Time: 2735.955s (+4.491e-01s), Max Depth: 0.8651849237m, Max Vel: 0.9834187402m/s, Area: 141850.0m², Vol: 45524.7m³

Step 7200/29999, Sim Time: 2780.862s (+4.490e-01s), Max Depth: 0.8653387632m, Max Vel: 0.9835796274m/s, Area: 142025.0m², Vol: 45676.9m³

Step 7300/29999, Sim Time: 2825.764s (+4.490e-01s), Max Depth: 0.8655256831m, Max Vel: 0.9837842872m/s, Area: 142100.0m², Vol: 45831.4m³

Step 7400/29999, Sim Time: 2870.659s (+4.489e-01s), Max Depth: 0.8657367688m, Max Vel: 0.9840178464m/s, Area: 142275.0m², Vol: 45987.8m³

Step 7500/29999, Sim Time: 2915.547s (+4.488e-01s), Max Depth: 0.8659698526m, Max Vel: 0.9842779550m/s, Area: 142500.0m², Vol: 46146.9m³

Step 7600/29999, Sim Time: 2960.428s (+4.488e-01s), Max Depth: 0.8662044791m, Max Vel: 0.9845462893m/s, Area: 142700.0m², Vol: 46309.0m³

Step 7700/29999, Sim Time: 3005.300s (+4.487e-01s), Max Depth: 0.8664236924m, Max Vel: 0.9848097943m/s, Area: 143000.0m², Vol: 46473.9m³

Step 7800/29999, Sim Time: 3050.166s (+4.486e-01s), Max Depth: 0.8666275644m, Max Vel: 0.9850904317m/s, Area: 143175.0m², Vol: 46642.0m³

Step 7900/29999, Sim Time: 3095.025s (+4.486e-01s), Max Depth: 0.8668629681m, Max Vel: 0.9853163363m/s, Area: 143375.0m², Vol: 46812.6m³

Step 8000/29999, Sim Time: 3139.876s (+4.485e-01s), Max Depth: 0.8671148808m, Max Vel: 0.9855770491m/s, Area: 143475.0m², Vol: 46984.9m³

Step 8100/29999, Sim Time: 3184.720s (+4.484e-01s), Max Depth: 0.8673430091m, Max Vel: 0.9857936152m/s, Area: 143650.0m², Vol: 47157.0m³

Step 8200/29999, Sim Time: 3229.557s (+4.483e-01s), Max Depth: 0.8675143890m, Max Vel: 0.9859947127m/s, Area: 144025.0m², Vol: 47328.9m³

Step 8300/29999, Sim Time: 3274.389s (+4.483e-01s), Max Depth: 0.8676255949m, Max Vel: 0.9861325441m/s, Area: 144175.0m², Vol: 47500.9m³

Step 8400/29999, Sim Time: 3319.219s (+4.483e-01s), Max Depth: 0.8676838664m, Max Vel: 0.9862129911m/s, Area: 144275.0m², Vol: 47672.2m³

Step 8500/29999, Sim Time: 3364.048s (+4.483e-01s), Max Depth: 0.8676865754m, Max Vel: 0.9862236051m/s, Area: 144400.0m², Vol: 47842.6m³

Step 8600/29999, Sim Time: 3408.876s (+4.483e-01s), Max Depth: 0.8676508745m, Max Vel: 0.9861671346m/s, Area: 144450.0m², Vol: 48011.8m³

Step 8700/29999, Sim Time: 3453.707s (+4.483e-01s), Max Depth: 0.8675944773m, Max Vel: 0.9861021619m/s, Area: 144625.0m², Vol: 48179.8m³

Step 8800/29999, Sim Time: 3498.541s (+4.484e-01s), Max Depth: 0.8674899693m, Max Vel: 0.9859991719m/s, Area: 144975.0m², Vol: 48347.4m³

Step 8900/29999, Sim Time: 3543.378s (+4.484e-01s), Max Depth: 0.8673711171m, Max Vel: 0.9858278905m/s, Area: 145175.0m², Vol: 48514.7m³

Step 9000/29999, Sim Time: 3588.218s (+4.484e-01s), Max Depth: 0.8672797914m, Max Vel: 0.9856453601m/s, Area: 145325.0m², Vol: 48680.4m³

Step 9100/29999, Sim Time: 3633.063s (+4.485e-01s), Max Depth: 0.8671497628m, Max Vel: 0.9855701504m/s, Area: 145550.0m², Vol: 48843.8m³

Step 9200/29999, Sim Time: 3677.913s (+4.485e-01s), Max Depth: 0.8669791287m, Max Vel: 0.9853569504m/s, Area: 145600.0m², Vol: 49005.9m³

Step 9300/29999, Sim Time: 3722.768s (+4.486e-01s), Max Depth: 0.8668223648m, Max Vel: 0.9851354089m/s, Area: 145775.0m², Vol: 49166.0m³

Step 9400/29999, Sim Time: 3767.627s (+4.486e-01s), Max Depth: 0.8667349422m, Max Vel: 0.9849325380m/s, Area: 146025.0m², Vol: 49324.6m³

Step 9500/29999, Sim Time: 3812.491s (+4.487e-01s), Max Depth: 0.8665872932m, Max Vel: 0.9848394508m/s, Area: 146125.0m², Vol: 49481.3m³

Step 9600/29999, Sim Time: 3857.360s (+4.487e-01s), Max Depth: 0.8664320703m, Max Vel: 0.9845969096m/s, Area: 146375.0m², Vol: 49634.8m³

Step 9700/29999, Sim Time: 3902.233s (+4.488e-01s), Max Depth: 0.8663027911m, Max Vel: 0.9843965553m/s, Area: 146450.0m², Vol: 49785.9m³

Step 9800/29999, Sim Time: 3947.111s (+4.488e-01s), Max Depth: 0.8662359479m, Max Vel: 0.9842389673m/s, Area: 146600.0m², Vol: 49934.2m³

Step 9900/29999, Sim Time: 3991.993s (+4.488e-01s), Max Depth: 0.8661029186m, Max Vel: 0.9841477485m/s, Area: 146725.0m², Vol: 50080.5m³

Step 10000/29999, Sim Time: 4036.878s (+4.489e-01s), Max Depth: 0.8659781856m, Max Vel: 0.9839405911m/s, Area: 146900.0m², Vol: 50224.3m³

Step 10100/29999, Sim Time: 4081.767s (+4.489e-01s), Max Depth: 0.8658875104m, Max Vel: 0.9837748866m/s, Area: 147050.0m², Vol: 50365.7m³

Step 10200/29999, Sim Time: 4126.660s (+4.489e-01s), Max Depth: 0.8658374929m, Max Vel: 0.9836721367m/s, Area: 147125.0m², Vol: 50505.0m³

Step 10300/29999, Sim Time: 4171.556s (+4.490e-01s), Max Depth: 0.8657385496m, Max Vel: 0.9835862391m/s, Area: 147300.0m², Vol: 50641.6m³

Step 10400/29999, Sim Time: 4216.454s (+4.490e-01s), Max Depth: 0.8656549460m, Max Vel: 0.9834430312m/s, Area: 147550.0m², Vol: 50775.6m³

Step 10500/29999, Sim Time: 4261.354s (+4.490e-01s), Max Depth: 0.8656009511m, Max Vel: 0.9833245967m/s, Area: 147650.0m², Vol: 50907.9m³

Step 10600/29999, Sim Time: 4306.258s (+4.490e-01s), Max Depth: 0.8655450006m, Max Vel: 0.9832623793m/s, Area: 147775.0m², Vol: 51037.5m³

Step 10700/29999, Sim Time: 4351.164s (+4.491e-01s), Max Depth: 0.8654542134m, Max Vel: 0.9831706511m/s, Area: 147800.0m², Vol: 51164.3m³

Step 10800/29999, Sim Time: 4396.072s (+4.491e-01s), Max Depth: 0.8653755152m, Max Vel: 0.9830478601m/s, Area: 147975.0m², Vol: 51287.3m³

Step 10900/29999, Sim Time: 4440.982s (+4.491e-01s), Max Depth: 0.8653390836m, Max Vel: 0.9829440180m/s, Area: 148100.0m², Vol: 51407.0m³

Step 11000/29999, Sim Time: 4485.896s (+4.491e-01s), Max Depth: 0.8652907928m, Max Vel: 0.9827962093m/s, Area: 148150.0m², Vol: 51523.0m³

Step 11100/29999, Sim Time: 4530.810s (+4.491e-01s), Max Depth: 0.8652528275m, Max Vel: 0.9829268490m/s, Area: 148200.0m², Vol: 51634.8m³

Step 11200/29999, Sim Time: 4575.724s (+4.492e-01s), Max Depth: 0.8651940202m, Max Vel: 0.9828249385m/s, Area: 148225.0m², Vol: 51742.7m³

Step 11300/29999, Sim Time: 4620.640s (+4.492e-01s), Max Depth: 0.8651734353m, Max Vel: 0.9827679359m/s, Area: 148275.0m², Vol: 51847.1m³

Step 11400/29999, Sim Time: 4665.558s (+4.492e-01s), Max Depth: 0.8651102352m, Max Vel: 0.9827447996m/s, Area: 148300.0m², Vol: 51948.3m³

Step 11500/29999, Sim Time: 4710.478s (+4.492e-01s), Max Depth: 0.8650557089m, Max Vel: 0.9826524742m/s, Area: 148400.0m², Vol: 52046.6m³

Step 11600/29999, Sim Time: 4755.399s (+4.492e-01s), Max Depth: 0.8650250116m, Max Vel: 0.9825900669m/s, Area: 148500.0m², Vol: 52142.7m³

Step 11700/29999, Sim Time: 4800.321s (+4.492e-01s), Max Depth: 0.8650226333m, Max Vel: 0.9825632859m/s, Area: 148600.0m², Vol: 52237.0m³

Step 11800/29999, Sim Time: 4845.244s (+4.492e-01s), Max Depth: 0.8649930743m, Max Vel: 0.9825447050m/s, Area: 148700.0m², Vol: 52329.2m³

Step 11900/29999, Sim Time: 4890.167s (+4.492e-01s), Max Depth: 0.8649749858m, Max Vel: 0.9825138042m/s, Area: 148750.0m², Vol: 52419.1m³

Step 12000/29999, Sim Time: 4935.091s (+4.492e-01s), Max Depth: 0.8649707787m, Max Vel: 0.9824749887m/s, Area: 148925.0m², Vol: 52507.1m³

Step 12100/29999, Sim Time: 4980.016s (+4.492e-01s), Max Depth: 0.8649724125m, Max Vel: 0.9824718472m/s, Area: 148950.0m², Vol: 52593.8m³

Step 12200/29999, Sim Time: 5024.940s (+4.492e-01s), Max Depth: 0.8649573741m, Max Vel: 0.9824666245m/s, Area: 149100.0m², Vol: 52678.8m³

Step 12300/29999, Sim Time: 5069.865s (+4.493e-01s), Max Depth: 0.8649463161m, Max Vel: 0.9824304828m/s, Area: 149175.0m², Vol: 52762.1m³

Step 12400/29999, Sim Time: 5114.790s (+4.493e-01s), Max Depth: 0.8649523331m, Max Vel: 0.9824141756m/s, Area: 149250.0m², Vol: 52843.2m³

Step 12500/29999, Sim Time: 5159.716s (+4.493e-01s), Max Depth: 0.8649532588m, Max Vel: 0.9824082144m/s, Area: 149275.0m², Vol: 52922.0m³

Step 12600/29999, Sim Time: 5204.641s (+4.493e-01s), Max Depth: 0.8649427344m, Max Vel: 0.9824000568m/s, Area: 149350.0m², Vol: 52998.4m³

Step 12700/29999, Sim Time: 5249.567s (+4.493e-01s), Max Depth: 0.8649326726m, Max Vel: 0.9823664804m/s, Area: 149350.0m², Vol: 53072.6m³

Step 12800/29999, Sim Time: 5294.494s (+4.493e-01s), Max Depth: 0.8649362219m, Max Vel: 0.9823364459m/s, Area: 149450.0m², Vol: 53144.3m³

Step 12900/29999, Sim Time: 5339.420s (+4.493e-01s), Max Depth: 0.8649228643m, Max Vel: 0.9823349926m/s, Area: 149425.0m², Vol: 53213.8m³

Step 13000/29999, Sim Time: 5384.348s (+4.493e-01s), Max Depth: 0.8649040466m, Max Vel: 0.9822860078m/s, Area: 149650.0m², Vol: 53281.4m³

Step 13100/29999, Sim Time: 5429.276s (+4.493e-01s), Max Depth: 0.8648878297m, Max Vel: 0.9822510953m/s, Area: 149750.0m², Vol: 53347.6m³

Step 13200/29999, Sim Time: 5474.204s (+4.493e-01s), Max Depth: 0.8648809846m, Max Vel: 0.9822173503m/s, Area: 149750.0m², Vol: 53412.2m³

Step 13300/29999, Sim Time: 5519.134s (+4.493e-01s), Max Depth: 0.8648587649m, Max Vel: 0.9821904038m/s, Area: 149875.0m², Vol: 53475.0m³

Step 13400/29999, Sim Time: 5564.064s (+4.493e-01s), Max Depth: 0.8648322034m, Max Vel: 0.9821384661m/s, Area: 149900.0m², Vol: 53536.3m³

Step 13500/29999, Sim Time: 5608.996s (+4.493e-01s), Max Depth: 0.8648082353m, Max Vel: 0.9820840369m/s, Area: 149975.0m², Vol: 53595.9m³

Step 13600/29999, Sim Time: 5653.928s (+4.493e-01s), Max Depth: 0.8648002659m, Max Vel: 0.9820398096m/s, Area: 149925.0m², Vol: 53653.9m³

Step 13700/29999, Sim Time: 5698.861s (+4.493e-01s), Max Depth: 0.8647635080m, Max Vel: 0.9820094057m/s, Area: 150025.0m², Vol: 53709.9m³

Step 13800/29999, Sim Time: 5743.796s (+4.494e-01s), Max Depth: 0.8647287855m, Max Vel: 0.9819387043m/s, Area: 149975.0m², Vol: 53764.0m³

Step 13900/29999, Sim Time: 5788.731s (+4.494e-01s), Max Depth: 0.8647044031m, Max Vel: 0.9818820931m/s, Area: 150125.0m², Vol: 53816.4m³

Step 14000/29999, Sim Time: 5833.668s (+4.494e-01s), Max Depth: 0.8646821149m, Max Vel: 0.9818425425m/s, Area: 150125.0m², Vol: 53867.5m³

Step 14100/29999, Sim Time: 5878.606s (+4.494e-01s), Max Depth: 0.8646396510m, Max Vel: 0.9817962142m/s, Area: 150150.0m², Vol: 53917.2m³

Step 14200/29999, Sim Time: 5923.545s (+4.494e-01s), Max Depth: 0.8645983810m, Max Vel: 0.9817250660m/s, Area: 150200.0m², Vol: 53965.5m³

Step 14300/29999, Sim Time: 5968.486s (+4.494e-01s), Max Depth: 0.8645721242m, Max Vel: 0.9816565556m/s, Area: 150225.0m², Vol: 54012.6m³

Step 14400/29999, Sim Time: 6013.428s (+4.494e-01s), Max Depth: 0.8645460114m, Max Vel: 0.9816249508m/s, Area: 150250.0m², Vol: 54058.9m³

Step 14500/29999, Sim Time: 6058.371s (+4.494e-01s), Max Depth: 0.8644955948m, Max Vel: 0.9815695355m/s, Area: 150275.0m², Vol: 54104.3m³

Step 14600/29999, Sim Time: 6103.316s (+4.495e-01s), Max Depth: 0.8644507400m, Max Vel: 0.9814937192m/s, Area: 150275.0m², Vol: 54148.9m³

Step 14700/29999, Sim Time: 6148.262s (+4.495e-01s), Max Depth: 0.8644327022m, Max Vel: 0.9814290380m/s, Area: 150250.0m², Vol: 54192.6m³

Step 14800/29999, Sim Time: 6193.210s (+4.495e-01s), Max Depth: 0.8643909368m, Max Vel: 0.9814142060m/s, Area: 150300.0m², Vol: 54235.5m³

Step 14900/29999, Sim Time: 6238.158s (+4.495e-01s), Max Depth: 0.8643429101m, Max Vel: 0.9813360873m/s, Area: 150275.0m², Vol: 54277.6m³

Step 15000/29999, Sim Time: 6283.109s (+4.495e-01s), Max Depth: 0.8643040657m, Max Vel: 0.9812740843m/s, Area: 150300.0m², Vol: 54319.2m³

Step 15100/29999, Sim Time: 6328.060s (+4.495e-01s), Max Depth: 0.8642865511m, Max Vel: 0.9812311591m/s, Area: 150300.0m², Vol: 54360.6m³

Step 15200/29999, Sim Time: 6373.013s (+4.495e-01s), Max Depth: 0.8642364570m, Max Vel: 0.9812067891m/s, Area: 150300.0m², Vol: 54401.3m³

Step 15300/29999, Sim Time: 6417.967s (+4.496e-01s), Max Depth: 0.8641880160m, Max Vel: 0.9811377419m/s, Area: 150350.0m², Vol: 54441.5m³

Step 15400/29999, Sim Time: 6462.922s (+4.496e-01s), Max Depth: 0.8641537485m, Max Vel: 0.9810728750m/s, Area: 150325.0m², Vol: 54481.3m³

Step 15500/29999, Sim Time: 6507.879s (+4.496e-01s), Max Depth: 0.8641306341m, Max Vel: 0.9810436724m/s, Area: 150300.0m², Vol: 54520.7m³

Step 15600/29999, Sim Time: 6552.837s (+4.496e-01s), Max Depth: 0.8640726477m, Max Vel: 0.9810108592m/s, Area: 150325.0m², Vol: 54559.5m³

Step 15700/29999, Sim Time: 6597.797s (+4.496e-01s), Max Depth: 0.8640175860m, Max Vel: 0.9809390786m/s, Area: 150375.0m², Vol: 54597.9m³

Step 15800/29999, Sim Time: 6642.758s (+4.496e-01s), Max Depth: 0.8639809715m, Max Vel: 0.9808707302m/s, Area: 150450.0m², Vol: 54636.0m³

Step 15900/29999, Sim Time: 6687.720s (+4.496e-01s), Max Depth: 0.8639468326m, Max Vel: 0.9808490773m/s, Area: 150425.0m², Vol: 54674.0m³

Step 16000/29999, Sim Time: 6732.685s (+4.497e-01s), Max Depth: 0.8638430917m, Max Vel: 0.9807912889m/s, Area: 150500.0m², Vol: 54712.2m³

Step 16100/29999, Sim Time: 6777.652s (+4.497e-01s), Max Depth: 0.8637244899m, Max Vel: 0.9806681737m/s, Area: 150525.0m², Vol: 54750.5m³

Step 16200/29999, Sim Time: 6822.623s (+4.497e-01s), Max Depth: 0.8636323669m, Max Vel: 0.9805383748m/s, Area: 150575.0m², Vol: 54789.4m³

Step 16300/29999, Sim Time: 6867.597s (+4.498e-01s), Max Depth: 0.8635332323m, Max Vel: 0.9804869001m/s, Area: 150575.0m², Vol: 54829.2m³

Step 16400/29999, Sim Time: 6912.575s (+4.498e-01s), Max Depth: 0.8634174091m, Max Vel: 0.9803621925m/s, Area: 150600.0m², Vol: 54869.7m³

Step 16500/29999, Sim Time: 6957.555s (+4.498e-01s), Max Depth: 0.8633238248m, Max Vel: 0.9802500637m/s, Area: 150600.0m², Vol: 54910.9m³

Step 16600/29999, Sim Time: 7002.538s (+4.498e-01s), Max Depth: 0.8632860323m, Max Vel: 0.9801681586m/s, Area: 150650.0m², Vol: 54953.3m³

Step 16700/29999, Sim Time: 7047.523s (+4.499e-01s), Max Depth: 0.8632033532m, Max Vel: 0.9801553970m/s, Area: 150600.0m², Vol: 54998.7m³

Step 16800/29999, Sim Time: 7092.510s (+4.499e-01s), Max Depth: 0.8631095324m, Max Vel: 0.9800582232m/s, Area: 150700.0m², Vol: 55048.5m³

Step 16900/29999, Sim Time: 7137.499s (+4.499e-01s), Max Depth: 0.8630262046m, Max Vel: 0.9799679227m/s, Area: 150675.0m², Vol: 55105.5m³

Step 17000/29999, Sim Time: 7182.491s (+4.499e-01s), Max Depth: 0.8629752431m, Max Vel: 0.9799169152m/s, Area: 150825.0m², Vol: 55177.2m³

Step 17100/29999, Sim Time: 7227.486s (+4.500e-01s), Max Depth: 0.8628749040m, Max Vel: 0.9798780139m/s, Area: 150975.0m², Vol: 55286.1m³

Step 17200/29999, Sim Time: 7272.482s (+4.500e-01s), Max Depth: 0.8627876782m, Max Vel: 0.9797602439m/s, Area: 151075.0m², Vol: 55448.9m³

Step 17300/29999, Sim Time: 7317.481s (+4.500e-01s), Max Depth: 0.8627392132m, Max Vel: 0.9796713024m/s, Area: 151175.0m², Vol: 55650.5m³

Step 17400/29999, Sim Time: 7362.482s (+4.500e-01s), Max Depth: 0.8627000716m, Max Vel: 0.9796521058m/s, Area: 151250.0m², Vol: 55845.2m³

Step 17500/29999, Sim Time: 7407.484s (+4.500e-01s), Max Depth: 0.8626339923m, Max Vel: 0.9795989225m/s, Area: 151350.0m², Vol: 56014.5m³

Step 17600/29999, Sim Time: 7452.488s (+4.501e-01s), Max Depth: 0.8625746132m, Max Vel: 0.9795327999m/s, Area: 151475.0m², Vol: 56163.1m³

Step 17700/29999, Sim Time: 7497.494s (+4.501e-01s), Max Depth: 0.8624932535m, Max Vel: 0.9794529132m/s, Area: 151600.0m², Vol: 56292.0m³

Step 17800/29999, Sim Time: 7542.503s (+4.501e-01s), Max Depth: 0.8623834693m, Max Vel: 0.9794028173m/s, Area: 151675.0m², Vol: 56408.2m³

Step 17900/29999, Sim Time: 7587.516s (+4.501e-01s), Max Depth: 0.8622454928m, Max Vel: 0.9792736025m/s, Area: 151725.0m², Vol: 56520.9m³

Step 18000/29999, Sim Time: 7632.532s (+4.502e-01s), Max Depth: 0.8621277397m, Max Vel: 0.9791301853m/s, Area: 151875.0m², Vol: 56631.8m³

Step 18100/29999, Sim Time: 7677.552s (+4.502e-01s), Max Depth: 0.8620753612m, Max Vel: 0.9790220831m/s, Area: 151950.0m², Vol: 56736.8m³

Step 18200/29999, Sim Time: 7722.574s (+4.502e-01s), Max Depth: 0.8619738355m, Max Vel: 0.9789950844m/s, Area: 151975.0m², Vol: 56831.4m³

Step 18300/29999, Sim Time: 7767.599s (+4.503e-01s), Max Depth: 0.8618645141m, Max Vel: 0.9788514928m/s, Area: 152175.0m², Vol: 56918.2m³

Step 18400/29999, Sim Time: 7812.627s (+4.503e-01s), Max Depth: 0.8617616732m, Max Vel: 0.9787335395m/s, Area: 152150.0m², Vol: 56999.8m³

Step 18500/29999, Sim Time: 7857.658s (+4.503e-01s), Max Depth: 0.8616924558m, Max Vel: 0.9786560456m/s, Area: 152175.0m², Vol: 57076.8m³

Step 18600/29999, Sim Time: 7902.693s (+4.504e-01s), Max Depth: 0.8615430373m, Max Vel: 0.9785930904m/s, Area: 152200.0m², Vol: 57149.0m³

Step 18700/29999, Sim Time: 7947.732s (+4.504e-01s), Max Depth: 0.8614050008m, Max Vel: 0.9784383406m/s, Area: 152225.0m², Vol: 57217.0m³

Step 18800/29999, Sim Time: 7992.773s (+4.504e-01s), Max Depth: 0.8613226642m, Max Vel: 0.9782939534m/s, Area: 152275.0m², Vol: 57280.2m³

Step 18900/29999, Sim Time: 8037.819s (+4.505e-01s), Max Depth: 0.8612250290m, Max Vel: 0.9782517984m/s, Area: 152250.0m², Vol: 57339.2m³

Step 19000/29999, Sim Time: 8082.868s (+4.505e-01s), Max Depth: 0.8610614593m, Max Vel: 0.9781330482m/s, Area: 152250.0m², Vol: 57394.8m³

Step 19100/29999, Sim Time: 8127.921s (+4.506e-01s), Max Depth: 0.8609034638m, Max Vel: 0.9779523130m/s, Area: 152275.0m², Vol: 57448.2m³

Step 19200/29999, Sim Time: 8172.978s (+4.506e-01s), Max Depth: 0.8608133655m, Max Vel: 0.9777831755m/s, Area: 152350.0m², Vol: 57500.7m³

Step 19300/29999, Sim Time: 8218.040s (+4.506e-01s), Max Depth: 0.8606985653m, Max Vel: 0.9777287669m/s, Area: 152350.0m², Vol: 57553.1m³

Step 19400/29999, Sim Time: 8263.106s (+4.507e-01s), Max Depth: 0.8605587406m, Max Vel: 0.9775624312m/s, Area: 152400.0m², Vol: 57605.2m³

Step 19500/29999, Sim Time: 8308.175s (+4.507e-01s), Max Depth: 0.8604373262m, Max Vel: 0.9774007592m/s, Area: 152450.0m², Vol: 57657.4m³

Step 19600/29999, Sim Time: 8353.248s (+4.508e-01s), Max Depth: 0.8603130990m, Max Vel: 0.9772555649m/s, Area: 152500.0m², Vol: 57710.5m³

Step 19700/29999, Sim Time: 8398.325s (+4.508e-01s), Max Depth: 0.8601688917m, Max Vel: 0.9771698370m/s, Area: 152550.0m², Vol: 57766.1m³

Step 19800/29999, Sim Time: 8443.407s (+4.508e-01s), Max Depth: 0.8600660440m, Max Vel: 0.9769615450m/s, Area: 152575.0m², Vol: 57825.7m³

Step 19900/29999, Sim Time: 8488.493s (+4.509e-01s), Max Depth: 0.8599314617m, Max Vel: 0.9767732734m/s, Area: 152600.0m², Vol: 57891.3m³

Step 20000/29999, Sim Time: 8533.579s (+4.508e-01s), Max Depth: 0.8605547091m, Max Vel: 0.9766403706m/s, Area: 152600.0m², Vol: 57968.4m³

Step 20100/29999, Sim Time: 8578.652s (+4.508e-01s), Max Depth: 0.8603102286m, Max Vel: 0.9764846617m/s, Area: 152650.0m², Vol: 58068.8m³

Step 20200/29999, Sim Time: 8623.748s (+4.507e-01s), Max Depth: 0.8614673081m, Max Vel: 0.9762161516m/s, Area: 152750.0m², Vol: 58176.9m³

Step 20300/29999, Sim Time: 8668.744s (+4.494e-01s), Max Depth: 0.8679418331m, Max Vel: 0.9759463001m/s, Area: 152800.0m², Vol: 58276.0m³

Step 20400/29999, Sim Time: 8713.661s (+4.490e-01s), Max Depth: 0.8703589019m, Max Vel: 0.9758282728m/s, Area: 152850.0m², Vol: 58360.2m³

Step 20500/29999, Sim Time: 8758.551s (+4.489e-01s), Max Depth: 0.8708471176m, Max Vel: 0.9755650576m/s, Area: 152900.0m², Vol: 58429.9m³

Step 20600/29999, Sim Time: 8803.445s (+4.490e-01s), Max Depth: 0.8706988022m, Max Vel: 0.9753255560m/s, Area: 152925.0m², Vol: 58486.8m³

Step 20700/29999, Sim Time: 8848.344s (+4.490e-01s), Max Depth: 0.8703895987m, Max Vel: 0.9751315995m/s, Area: 152950.0m², Vol: 58533.1m³

Step 20800/29999, Sim Time: 8893.250s (+4.491e-01s), Max Depth: 0.8701881203m, Max Vel: 0.9750134593m/s, Area: 152875.0m², Vol: 58572.3m³

Step 20900/29999, Sim Time: 8938.164s (+4.492e-01s), Max Depth: 0.8699371142m, Max Vel: 0.9747673920m/s, Area: 152900.0m², Vol: 58605.6m³

Step 21000/29999, Sim Time: 8983.083s (+4.492e-01s), Max Depth: 0.8697505808m, Max Vel: 0.9745683210m/s, Area: 152875.0m², Vol: 58634.7m³

Step 21100/29999, Sim Time: 9028.008s (+4.493e-01s), Max Depth: 0.8696762745m, Max Vel: 0.9744272521m/s, Area: 152850.0m², Vol: 58660.6m³

Step 21200/29999, Sim Time: 9072.934s (+4.493e-01s), Max Depth: 0.8698067179m, Max Vel: 0.9742143961m/s, Area: 152875.0m², Vol: 58684.4m³

Step 21300/29999, Sim Time: 9117.860s (+4.493e-01s), Max Depth: 0.8698995564m, Max Vel: 0.9739416919m/s, Area: 152925.0m², Vol: 58706.2m³

Step 21400/29999, Sim Time: 9162.788s (+4.493e-01s), Max Depth: 0.8699069401m, Max Vel: 0.9736897833m/s, Area: 152875.0m², Vol: 58725.6m³

Step 21500/29999, Sim Time: 9207.720s (+4.493e-01s), Max Depth: 0.8698566707m, Max Vel: 0.9735392762m/s, Area: 152850.0m², Vol: 58742.7m³

Step 21600/29999, Sim Time: 9252.655s (+4.494e-01s), Max Depth: 0.8698385906m, Max Vel: 0.9732199020m/s, Area: 152850.0m², Vol: 58758.0m³

Step 21700/29999, Sim Time: 9297.593s (+4.494e-01s), Max Depth: 0.8698568113m, Max Vel: 0.9729014411m/s, Area: 152900.0m², Vol: 58772.1m³

Step 21800/29999, Sim Time: 9342.534s (+4.494e-01s), Max Depth: 0.8698814852m, Max Vel: 0.9726186257m/s, Area: 152875.0m², Vol: 58785.0m³

Step 21900/29999, Sim Time: 9387.479s (+4.495e-01s), Max Depth: 0.8698872044m, Max Vel: 0.9722929281m/s, Area: 152825.0m², Vol: 58796.8m³

Step 22000/29999, Sim Time: 9432.429s (+4.495e-01s), Max Depth: 0.8698791439m, Max Vel: 0.9718266558m/s, Area: 152850.0m², Vol: 58807.4m³

Step 22100/29999, Sim Time: 9477.383s (+4.496e-01s), Max Depth: 0.8698788339m, Max Vel: 0.9712910294m/s, Area: 152850.0m², Vol: 58817.2m³

Step 22200/29999, Sim Time: 9522.343s (+4.496e-01s), Max Depth: 0.8698819631m, Max Vel: 0.9709534729m/s, Area: 152875.0m², Vol: 58826.0m³

Step 22300/29999, Sim Time: 9567.310s (+4.497e-01s), Max Depth: 0.8698907631m, Max Vel: 0.9701626612m/s, Area: 152875.0m², Vol: 58834.2m³

Step 22400/29999, Sim Time: 9612.285s (+4.498e-01s), Max Depth: 0.8698929197m, Max Vel: 0.9692668580m/s, Area: 152875.0m², Vol: 58841.3m³

Step 22500/29999, Sim Time: 9657.269s (+4.499e-01s), Max Depth: 0.8698952214m, Max Vel: 0.9687357367m/s, Area: 152775.0m², Vol: 58847.1m³

Step 22600/29999, Sim Time: 9702.263s (+4.500e-01s), Max Depth: 0.8698953574m, Max Vel: 0.9679871248m/s, Area: 152725.0m², Vol: 58851.7m³

Step 22700/29999, Sim Time: 9747.263s (+4.500e-01s), Max Depth: 0.8698984741m, Max Vel: 0.9672269588m/s, Area: 152750.0m², Vol: 58855.3m³

Step 22800/29999, Sim Time: 9792.270s (+4.501e-01s), Max Depth: 0.8699009838m, Max Vel: 0.9666830260m/s, Area: 152750.0m², Vol: 58858.3m³

Step 22900/29999, Sim Time: 9837.283s (+4.501e-01s), Max Depth: 0.8699033143m, Max Vel: 0.9669707805m/s, Area: 152700.0m², Vol: 58860.4m³

Step 23000/29999, Sim Time: 9882.291s (+4.501e-01s), Max Depth: 0.8699045762m, Max Vel: 0.9668121797m/s, Area: 152625.0m², Vol: 58861.3m³

Step 23100/29999, Sim Time: 9927.307s (+4.503e-01s), Max Depth: 0.8699056165m, Max Vel: 0.9653799559m/s, Area: 152550.0m², Vol: 58861.4m³

Step 23200/29999, Sim Time: 9972.328s (+4.503e-01s), Max Depth: 0.8699069606m, Max Vel: 0.9649977220m/s, Area: 152525.0m², Vol: 58860.8m³

Step 23300/29999, Sim Time: 10017.354s (+4.503e-01s), Max Depth: 0.8699080461m, Max Vel: 0.9653141774m/s, Area: 152550.0m², Vol: 58859.8m³

Step 23400/29999, Sim Time: 10062.383s (+4.502e-01s), Max Depth: 0.8699091467m, Max Vel: 0.9656626665m/s, Area: 152525.0m², Vol: 58858.6m³

Step 23500/29999, Sim Time: 10107.419s (+4.504e-01s), Max Depth: 0.8699097236m, Max Vel: 0.9644032471m/s, Area: 152450.0m², Vol: 58856.8m³

Step 23600/29999, Sim Time: 10152.453s (+4.503e-01s), Max Depth: 0.8699104028m, Max Vel: 0.9649828786m/s, Area: 152400.0m², Vol: 58854.5m³

Step 23700/29999, Sim Time: 10197.484s (+4.504e-01s), Max Depth: 0.8699108265m, Max Vel: 0.9644806988m/s, Area: 152375.0m², Vol: 58851.7m³

Step 23800/29999, Sim Time: 10242.511s (+4.503e-01s), Max Depth: 0.8699112495m, Max Vel: 0.9650376473m/s, Area: 152350.0m², Vol: 58848.7m³

Step 23900/29999, Sim Time: 10287.535s (+4.502e-01s), Max Depth: 0.8699113880m, Max Vel: 0.9659933020m/s, Area: 152325.0m², Vol: 58845.1m³

Step 24000/29999, Sim Time: 10332.559s (+4.502e-01s), Max Depth: 0.8699114221m, Max Vel: 0.9662002520m/s, Area: 152275.0m², Vol: 58841.0m³

Step 24100/29999, Sim Time: 10377.579s (+4.502e-01s), Max Depth: 0.8699112631m, Max Vel: 0.9657655478m/s, Area: 152250.0m², Vol: 58836.9m³

Step 24200/29999, Sim Time: 10422.594s (+4.501e-01s), Max Depth: 0.8699108416m, Max Vel: 0.9668525254m/s, Area: 152200.0m², Vol: 58832.7m³

Step 24300/29999, Sim Time: 10467.605s (+4.502e-01s), Max Depth: 0.8699102572m, Max Vel: 0.9661306997m/s, Area: 152075.0m², Vol: 58828.0m³

Step 24400/29999, Sim Time: 10512.613s (+4.501e-01s), Max Depth: 0.8699096813m, Max Vel: 0.9666234864m/s, Area: 152050.0m², Vol: 58822.9m³

Step 24500/29999, Sim Time: 10557.620s (+4.499e-01s), Max Depth: 0.8699090377m, Max Vel: 0.9681631101m/s, Area: 152050.0m², Vol: 58817.9m³

Step 24600/29999, Sim Time: 10602.621s (+4.500e-01s), Max Depth: 0.8699082457m, Max Vel: 0.9679612518m/s, Area: 152025.0m², Vol: 58813.2m³

Step 24700/29999, Sim Time: 10647.612s (+4.499e-01s), Max Depth: 0.8699073428m, Max Vel: 0.9684828194m/s, Area: 152025.0m², Vol: 58808.5m³

Step 24800/29999, Sim Time: 10692.597s (+4.498e-01s), Max Depth: 0.8699063183m, Max Vel: 0.9692034193m/s, Area: 152000.0m², Vol: 58803.9m³

Step 24900/29999, Sim Time: 10737.572s (+4.497e-01s), Max Depth: 0.8699051987m, Max Vel: 0.9698198013m/s, Area: 152025.0m², Vol: 58799.3m³

Step 25000/29999, Sim Time: 10782.538s (+4.496e-01s), Max Depth: 0.8699039578m, Max Vel: 0.9711884826m/s, Area: 152000.0m², Vol: 58794.4m³

Step 25100/29999, Sim Time: 10827.497s (+4.495e-01s), Max Depth: 0.8699026225m, Max Vel: 0.9721135963m/s, Area: 151875.0m², Vol: 58789.4m³

Step 25200/29999, Sim Time: 10872.445s (+4.495e-01s), Max Depth: 0.8699011941m, Max Vel: 0.9720948599m/s, Area: 151800.0m², Vol: 58784.0m³

Step 25300/29999, Sim Time: 10917.383s (+4.493e-01s), Max Depth: 0.8698996520m, Max Vel: 0.9737889301m/s, Area: 151750.0m², Vol: 58778.4m³

Step 25400/29999, Sim Time: 10962.313s (+4.493e-01s), Max Depth: 0.8698979732m, Max Vel: 0.9736726039m/s, Area: 151700.0m², Vol: 58772.7m³

Step 25500/29999, Sim Time: 11007.234s (+4.492e-01s), Max Depth: 0.8698961612m, Max Vel: 0.9745658505m/s, Area: 151700.0m², Vol: 58766.9m³

Step 25600/29999, Sim Time: 11052.148s (+4.490e-01s), Max Depth: 0.8698942386m, Max Vel: 0.9760703530m/s, Area: 151700.0m², Vol: 58761.2m³

Step 25700/29999, Sim Time: 11097.054s (+4.490e-01s), Max Depth: 0.8698922033m, Max Vel: 0.9761725484m/s, Area: 151675.0m², Vol: 58755.7m³

Step 25800/29999, Sim Time: 11141.949s (+4.489e-01s), Max Depth: 0.8698900429m, Max Vel: 0.9770995452m/s, Area: 151625.0m², Vol: 58750.4m³

Step 25900/29999, Sim Time: 11186.836s (+4.488e-01s), Max Depth: 0.8698877398m, Max Vel: 0.9779079025m/s, Area: 151625.0m², Vol: 58745.1m³

Step 26000/29999, Sim Time: 11231.715s (+4.487e-01s), Max Depth: 0.8698852502m, Max Vel: 0.9787680532m/s, Area: 151600.0m², Vol: 58740.0m³

Step 26100/29999, Sim Time: 11276.585s (+4.487e-01s), Max Depth: 0.8698826554m, Max Vel: 0.9791432687m/s, Area: 151600.0m², Vol: 58735.0m³

Step 26200/29999, Sim Time: 11321.447s (+4.486e-01s), Max Depth: 0.8698800560m, Max Vel: 0.9798988642m/s, Area: 151600.0m², Vol: 58730.2m³

Step 26300/29999, Sim Time: 11366.301s (+4.486e-01s), Max Depth: 0.8698774066m, Max Vel: 0.9801412150m/s, Area: 151525.0m², Vol: 58725.7m³

Step 26400/29999, Sim Time: 11411.147s (+4.484e-01s), Max Depth: 0.8698745453m, Max Vel: 0.9815680697m/s, Area: 151475.0m², Vol: 58721.1m³

Step 26500/29999, Sim Time: 11455.987s (+4.483e-01s), Max Depth: 0.8698712422m, Max Vel: 0.9820817463m/s, Area: 151450.0m², Vol: 58716.9m³

Step 26600/29999, Sim Time: 11500.818s (+4.483e-01s), Max Depth: 0.8698680033m, Max Vel: 0.9828440031m/s, Area: 151475.0m², Vol: 58712.9m³

Step 26700/29999, Sim Time: 11545.644s (+4.482e-01s), Max Depth: 0.8698648251m, Max Vel: 0.9834598742m/s, Area: 151475.0m², Vol: 58709.2m³

Step 26800/29999, Sim Time: 11590.462s (+4.482e-01s), Max Depth: 0.8698616279m, Max Vel: 0.9835744801m/s, Area: 151450.0m², Vol: 58705.8m³

Step 26900/29999, Sim Time: 11635.273s (+4.481e-01s), Max Depth: 0.8698583094m, Max Vel: 0.9838850788m/s, Area: 151425.0m², Vol: 58702.5m³

Step 27000/29999, Sim Time: 11680.079s (+4.481e-01s), Max Depth: 0.8698547977m, Max Vel: 0.9845412354m/s, Area: 151400.0m², Vol: 58699.4m³

Step 27100/29999, Sim Time: 11724.882s (+4.480e-01s), Max Depth: 0.8698509604m, Max Vel: 0.9853333445m/s, Area: 151400.0m², Vol: 58696.6m³

Step 27200/29999, Sim Time: 11769.680s (+4.479e-01s), Max Depth: 0.8698473026m, Max Vel: 0.9855504317m/s, Area: 151375.0m², Vol: 58694.1m³

Step 27300/29999, Sim Time: 11814.475s (+4.479e-01s), Max Depth: 0.8698438235m, Max Vel: 0.9859712385m/s, Area: 151400.0m², Vol: 58691.8m³

Step 27400/29999, Sim Time: 11859.266s (+4.479e-01s), Max Depth: 0.8698402691m, Max Vel: 0.9861734817m/s, Area: 151375.0m², Vol: 58689.8m³

Step 27500/29999, Sim Time: 11904.054s (+4.479e-01s), Max Depth: 0.8698364529m, Max Vel: 0.9858478530m/s, Area: 151350.0m², Vol: 58688.0m³

Step 27600/29999, Sim Time: 11948.838s (+4.479e-01s), Max Depth: 0.8698320656m, Max Vel: 0.9863260206m/s, Area: 151350.0m², Vol: 58686.4m³

Step 27700/29999, Sim Time: 11993.621s (+4.478e-01s), Max Depth: 0.8698270957m, Max Vel: 0.9869843341m/s, Area: 151375.0m², Vol: 58685.1m³

Step 27800/29999, Sim Time: 12038.402s (+4.478e-01s), Max Depth: 0.8698241558m, Max Vel: 0.9867266092m/s, Area: 151250.0m², Vol: 58683.7m³

Step 27900/29999, Sim Time: 12083.181s (+4.478e-01s), Max Depth: 0.8698208998m, Max Vel: 0.9872693312m/s, Area: 151250.0m², Vol: 58682.6m³

Step 28000/29999, Sim Time: 12127.959s (+4.477e-01s), Max Depth: 0.8698169945m, Max Vel: 0.9873514462m/s, Area: 151275.0m², Vol: 58681.6m³

Step 28100/29999, Sim Time: 12172.736s (+4.477e-01s), Max Depth: 0.8698127313m, Max Vel: 0.9873969799m/s, Area: 151275.0m², Vol: 58681.0m³

Step 28200/29999, Sim Time: 12217.513s (+4.479e-01s), Max Depth: 0.8698088991m, Max Vel: 0.9862197324m/s, Area: 151275.0m², Vol: 58680.8m³

Step 28300/29999, Sim Time: 12262.291s (+4.478e-01s), Max Depth: 0.8698053624m, Max Vel: 0.9867470835m/s, Area: 151250.0m², Vol: 58680.8m³

Step 28400/29999, Sim Time: 12307.070s (+4.478e-01s), Max Depth: 0.8698017787m, Max Vel: 0.9873440094m/s, Area: 151250.0m², Vol: 58681.3m³

Step 28500/29999, Sim Time: 12351.846s (+4.477e-01s), Max Depth: 0.8697979654m, Max Vel: 0.9873991285m/s, Area: 151225.0m², Vol: 58682.0m³

Step 28600/29999, Sim Time: 12396.619s (+4.477e-01s), Max Depth: 0.8697940512m, Max Vel: 0.9875764836m/s, Area: 151225.0m², Vol: 58683.1m³

Step 28700/29999, Sim Time: 12441.391s (+4.477e-01s), Max Depth: 0.8697901023m, Max Vel: 0.9876638937m/s, Area: 151225.0m², Vol: 58684.5m³

Step 28800/29999, Sim Time: 12486.162s (+4.477e-01s), Max Depth: 0.8697862509m, Max Vel: 0.9877000121m/s, Area: 151200.0m², Vol: 58686.2m³

Step 28900/29999, Sim Time: 12530.934s (+4.477e-01s), Max Depth: 0.8697824140m, Max Vel: 0.9877244002m/s, Area: 151200.0m², Vol: 58688.2m³

Step 29000/29999, Sim Time: 12575.705s (+4.477e-01s), Max Depth: 0.8697785452m, Max Vel: 0.9876683345m/s, Area: 151150.0m², Vol: 58690.4m³

Step 29100/29999, Sim Time: 12620.477s (+4.477e-01s), Max Depth: 0.8697746410m, Max Vel: 0.9876234379m/s, Area: 151150.0m², Vol: 58692.7m³

Step 29200/29999, Sim Time: 12665.249s (+4.477e-01s), Max Depth: 0.8697707265m, Max Vel: 0.9876322804m/s, Area: 151125.0m², Vol: 58695.5m³

Step 29300/29999, Sim Time: 12710.022s (+4.477e-01s), Max Depth: 0.8697668244m, Max Vel: 0.9876065611m/s, Area: 151125.0m², Vol: 58698.5m³

Step 29400/29999, Sim Time: 12754.795s (+4.477e-01s), Max Depth: 0.8697629018m, Max Vel: 0.9875570637m/s, Area: 151125.0m², Vol: 58702.0m³

Step 29500/29999, Sim Time: 12799.568s (+4.477e-01s), Max Depth: 0.8697587473m, Max Vel: 0.9875223852m/s, Area: 151125.0m², Vol: 58705.8m³

Step 29600/29999, Sim Time: 12844.342s (+4.477e-01s), Max Depth: 0.8697540033m, Max Vel: 0.9875409865m/s, Area: 151100.0m², Vol: 58709.9m³

Step 29700/29999, Sim Time: 12889.116s (+4.477e-01s), Max Depth: 0.8697492132m, Max Vel: 0.9874932482m/s, Area: 151100.0m², Vol: 58714.3m³

Step 29800/29999, Sim Time: 12933.890s (+4.477e-01s), Max Depth: 0.8697454361m, Max Vel: 0.9874481602m/s, Area: 151100.0m², Vol: 58719.0m³

Step 29900/29999, Sim Time: 12978.665s (+4.478e-01s), Max Depth: 0.8697418704m, Max Vel: 0.9874167398m/s, Area: 151050.0m², Vol: 58723.9m³

Step 29999/29999, Sim Time: 13022.993s (+4.478e-01s), Max Depth: 0.8697380504m, Max Vel: 0.9874159804m/s, Area: 151000.0m², Vol: 58728.8m³

Simulation finished 30000 steps in 231.79 seconds (wall clock).

Final Maximum Flood Extent Area: 154750.00 m²

Peak Recorded Water Depth Anywhere: 3.290 m

Phase 2 max depth: 0.870 m, steady state max depth: 0.734 m, rate of increase: 0.000010 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\_source2\_5\_rain1\_5234375.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_source2\_5\_rain1\_5234375\_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 3.046875 --output-freq 100 -o result\_source2\_5\_rain3\_046875.mp4 --save --source-row 50 --source-col 1 --source-rate 2.5

--- 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 154.75 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=8.463541666666666e-07 m/s, duration=30000 steps

Added rainfall for Phase 2: 3.046875 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337675122m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39720.4m³

Step 100/29999, Sim Time: 48.378s (+3.773e-01s), Max Depth: 1.3502078026m, Max Vel: 1.0159596102m/s, Area: 130875.0m², Vol: 39798.0m³

Step 200/29999, Sim Time: 81.336s (+2.963e-01s), Max Depth: 2.1417346330m, Max Vel: 1.3332321689m/s, Area: 130875.0m², Vol: 39851.6m³

Step 300/29999, Sim Time: 108.800s (+2.572e-01s), Max Depth: 2.7106962918m, Max Vel: 1.6546300528m/s, Area: 130900.0m², Vol: 39896.9m³

Step 400/29999, Sim Time: 133.265s (+2.355e-01s), Max Depth: 2.9490831052m, Max Vel: 2.0556577535m/s, Area: 130950.0m², Vol: 39940.0m³

Step 500/29999, Sim Time: 157.211s (+2.533e-01s), Max Depth: 2.6475324682m, Max Vel: 1.8031473020m/s, Area: 131025.0m², Vol: 39983.1m³

Step 600/29999, Sim Time: 179.838s (+1.201e-01s), Max Depth: 2.1295147385m, Max Vel: 9.9999999991m/s, Area: 131100.0m², Vol: 40026.0m³

Step 700/29999, Sim Time: 203.128s (+3.266e-01s), Max Depth: 1.6579506286m, Max Vel: 1.3063963177m/s, Area: 131150.0m², Vol: 40074.0m³

Step 800/29999, Sim Time: 238.727s (+3.834e-01s), Max Depth: 1.3116676273m, Max Vel: 0.9746739820m/s, Area: 131275.0m², Vol: 40143.3m³

Step 900/29999, Sim Time: 268.814s (+3.883e-01s), Max Depth: 1.3056757526m, Max Vel: 0.9380130683m/s, Area: 131475.0m², Vol: 40203.4m³

Step 1000/29999, Sim Time: 283.245s (+1.287e-01s), Max Depth: 1.3195804968m, Max Vel: 9.9999999998m/s, Area: 131575.0m², Vol: 40238.6m³

Step 1100/29999, Sim Time: 314.997s (+4.052e-01s), Max Depth: 1.2644954652m, Max Vel: 0.7993025884m/s, Area: 131800.0m², Vol: 40311.4m³

Step 1200/29999, Sim Time: 346.986s (+3.645e-01s), Max Depth: 1.3082101543m, Max Vel: 1.2067942360m/s, Area: 132100.0m², Vol: 40380.4m³

Step 1300/29999, Sim Time: 369.964s (+1.284e-01s), Max Depth: 1.3435009150m, Max Vel: 9.9999999991m/s, Area: 132250.0m², Vol: 40438.0m³

Step 1400/29999, Sim Time: 399.589s (+3.599e-01s), Max Depth: 1.3162090100m, Max Vel: 1.2668131627m/s, Area: 132625.0m², Vol: 40507.2m³

Step 1500/29999, Sim Time: 435.677s (+3.619e-01s), Max Depth: 1.3054555085m, Max Vel: 1.2567960988m/s, Area: 132900.0m², Vol: 40579.1m³

Step 1600/29999, Sim Time: 471.805s (+3.615e-01s), Max Depth: 1.3103776181m, Max Vel: 1.2548629707m/s, Area: 133100.0m², Vol: 40647.7m³

Step 1700/29999, Sim Time: 507.995s (+3.622e-01s), Max Depth: 1.3015146410m, Max Vel: 1.2581205615m/s, Area: 133100.0m², Vol: 40714.4m³

Step 1800/29999, Sim Time: 534.845s (+3.619e-01s), Max Depth: 1.3004111221m, Max Vel: 1.2644409184m/s, Area: 133275.0m², Vol: 40769.1m³

Step 1900/29999, Sim Time: 566.247s (+1.288e-01s), Max Depth: 1.3082388623m, Max Vel: 9.9999999991m/s, Area: 133375.0m², Vol: 40826.2m³

Step 2000/29999, Sim Time: 595.805s (+3.650e-01s), Max Depth: 1.2656381479m, Max Vel: 1.2695388261m/s, Area: 133450.0m², Vol: 40886.7m³

Step 2100/29999, Sim Time: 632.117s (+3.665e-01s), Max Depth: 1.2442199187m, Max Vel: 1.2793408513m/s, Area: 133725.0m², Vol: 40957.2m³

Step 2200/29999, Sim Time: 669.081s (+3.721e-01s), Max Depth: 1.2060224820m, Max Vel: 1.2633252819m/s, Area: 133975.0m², Vol: 41031.5m³

Step 2300/29999, Sim Time: 706.611s (+3.779e-01s), Max Depth: 1.1750124822m, Max Vel: 1.2346763468m/s, Area: 134100.0m², Vol: 41106.7m³

Step 2400/29999, Sim Time: 744.634s (+3.823e-01s), Max Depth: 1.1470422446m, Max Vel: 1.2219096171m/s, Area: 134275.0m², Vol: 41185.9m³

Step 2500/29999, Sim Time: 783.115s (+3.876e-01s), Max Depth: 1.1135009927m, Max Vel: 1.2086148071m/s, Area: 134450.0m², Vol: 41263.4m³

Step 2600/29999, Sim Time: 822.272s (+3.956e-01s), Max Depth: 1.0750952325m, Max Vel: 1.1751839537m/s, Area: 134550.0m², Vol: 41340.4m³

Step 2700/29999, Sim Time: 862.159s (+4.017e-01s), Max Depth: 1.0453603901m, Max Vel: 1.1535941204m/s, Area: 134775.0m², Vol: 41420.1m³

Step 2800/29999, Sim Time: 902.582s (+4.065e-01s), Max Depth: 1.0215305441m, Max Vel: 1.1384600198m/s, Area: 135000.0m², Vol: 41502.3m³

Step 2900/29999, Sim Time: 943.519s (+4.117e-01s), Max Depth: 0.9993062472m, Max Vel: 1.1194978385m/s, Area: 135175.0m², Vol: 41587.8m³

Step 3000/29999, Sim Time: 984.909s (+4.161e-01s), Max Depth: 0.9813623976m, Max Vel: 1.1024636037m/s, Area: 135350.0m², Vol: 41676.1m³

Step 3100/29999, Sim Time: 1026.681s (+4.198e-01s), Max Depth: 0.9670763728m, Max Vel: 1.0882847486m/s, Area: 135525.0m², Vol: 41765.9m³

Step 3200/29999, Sim Time: 1068.818s (+4.230e-01s), Max Depth: 0.9546904139m, Max Vel: 1.0767246099m/s, Area: 135700.0m², Vol: 41857.8m³

Step 3300/29999, Sim Time: 1111.292s (+4.259e-01s), Max Depth: 0.9424896610m, Max Vel: 1.0678698486m/s, Area: 135875.0m², Vol: 41951.8m³

Step 3400/29999, Sim Time: 1154.043s (+4.288e-01s), Max Depth: 0.9314037660m, Max Vel: 1.0581532486m/s, Area: 135975.0m², Vol: 42047.8m³

Step 3500/29999, Sim Time: 1197.054s (+4.316e-01s), Max Depth: 0.9212997822m, Max Vel: 1.0477957209m/s, Area: 136200.0m², Vol: 42145.3m³

Step 3600/29999, Sim Time: 1240.326s (+4.341e-01s), Max Depth: 0.9131510616m, Max Vel: 1.0379096552m/s, Area: 136275.0m², Vol: 42244.8m³

Step 3700/29999, Sim Time: 1283.852s (+4.362e-01s), Max Depth: 0.9050755647m, Max Vel: 1.0315655337m/s, Area: 136375.0m², Vol: 42345.3m³

Step 3800/29999, Sim Time: 1327.614s (+4.386e-01s), Max Depth: 0.8967883983m, Max Vel: 1.0241292757m/s, Area: 136600.0m², Vol: 42445.8m³

Step 3900/29999, Sim Time: 1371.577s (+4.407e-01s), Max Depth: 0.8900611688m, Max Vel: 1.0159082385m/s, Area: 136750.0m², Vol: 42546.9m³

Step 4000/29999, Sim Time: 1415.714s (+4.423e-01s), Max Depth: 0.8854880582m, Max Vel: 1.0093107234m/s, Area: 136850.0m², Vol: 42649.6m³

Step 4100/29999, Sim Time: 1460.000s (+4.434e-01s), Max Depth: 0.8820250717m, Max Vel: 1.0055304375m/s, Area: 137100.0m², Vol: 42754.1m³

Step 4200/29999, Sim Time: 1504.404s (+4.444e-01s), Max Depth: 0.8783856152m, Max Vel: 1.0022036231m/s, Area: 137450.0m², Vol: 42861.0m³

Step 4300/29999, Sim Time: 1548.893s (+4.453e-01s), Max Depth: 0.8757979252m, Max Vel: 0.9985384238m/s, Area: 137625.0m², Vol: 42970.4m³

Step 4400/29999, Sim Time: 1593.444s (+4.458e-01s), Max Depth: 0.8744982780m, Max Vel: 0.9961011054m/s, Area: 137950.0m², Vol: 43082.5m³

Step 4500/29999, Sim Time: 1638.043s (+4.461e-01s), Max Depth: 0.8738873796m, Max Vel: 0.9950581059m/s, Area: 138050.0m², Vol: 43197.7m³

Step 4600/29999, Sim Time: 1682.671s (+4.463e-01s), Max Depth: 0.8730260559m, Max Vel: 0.9943150290m/s, Area: 138150.0m², Vol: 43314.5m³

Step 4700/29999, Sim Time: 1727.314s (+4.465e-01s), Max Depth: 0.8725342144m, Max Vel: 0.9934477262m/s, Area: 138225.0m², Vol: 43431.9m³

Step 4800/29999, Sim Time: 1771.967s (+4.466e-01s), Max Depth: 0.8724070113m, Max Vel: 0.9929813706m/s, Area: 138325.0m², Vol: 43548.9m³

Step 4900/29999, Sim Time: 1816.630s (+4.466e-01s), Max Depth: 0.8723579992m, Max Vel: 0.9927624372m/s, Area: 138550.0m², Vol: 43665.8m³

Step 5000/29999, Sim Time: 1861.301s (+4.467e-01s), Max Depth: 0.8720097643m, Max Vel: 0.9925238792m/s, Area: 138650.0m², Vol: 43783.0m³

Step 5100/29999, Sim Time: 1905.981s (+4.469e-01s), Max Depth: 0.8716149426m, Max Vel: 0.9919984041m/s, Area: 138800.0m², Vol: 43900.3m³

Step 5200/29999, Sim Time: 1950.671s (+4.470e-01s), Max Depth: 0.8713034868m, Max Vel: 0.9914548308m/s, Area: 138900.0m², Vol: 44019.4m³

Step 5300/29999, Sim Time: 1995.375s (+4.471e-01s), Max Depth: 0.8710416923m, Max Vel: 0.9910140672m/s, Area: 138975.0m², Vol: 44140.5m³

Step 5400/29999, Sim Time: 2040.095s (+4.473e-01s), Max Depth: 0.8704795454m, Max Vel: 0.9905482302m/s, Area: 139375.0m², Vol: 44263.3m³

Step 5500/29999, Sim Time: 2084.831s (+4.475e-01s), Max Depth: 0.8698476565m, Max Vel: 0.9897286373m/s, Area: 139525.0m², Vol: 44389.1m³

Step 5600/29999, Sim Time: 2129.584s (+4.476e-01s), Max Depth: 0.8693615143m, Max Vel: 0.9889187557m/s, Area: 139675.0m², Vol: 44516.9m³

Step 5700/29999, Sim Time: 2174.356s (+4.478e-01s), Max Depth: 0.8688806002m, Max Vel: 0.9883967523m/s, Area: 139850.0m², Vol: 44647.2m³

Step 5800/29999, Sim Time: 2219.150s (+4.480e-01s), Max Depth: 0.8681835379m, Max Vel: 0.9877283859m/s, Area: 140100.0m², Vol: 44779.9m³

Step 5900/29999, Sim Time: 2263.962s (+4.483e-01s), Max Depth: 0.8674906500m, Max Vel: 0.9868126506m/s, Area: 140225.0m², Vol: 44915.3m³

Step 6000/29999, Sim Time: 2308.794s (+4.484e-01s), Max Depth: 0.8669879677m, Max Vel: 0.9859434886m/s, Area: 140525.0m², Vol: 45053.5m³

Step 6100/29999, Sim Time: 2353.648s (+4.486e-01s), Max Depth: 0.8664528783m, Max Vel: 0.9855139303m/s, Area: 140575.0m², Vol: 45194.9m³

Step 6200/29999, Sim Time: 2398.521s (+4.488e-01s), Max Depth: 0.8658168662m, Max Vel: 0.9847809413m/s, Area: 140650.0m², Vol: 45338.8m³

Step 6300/29999, Sim Time: 2443.409s (+4.490e-01s), Max Depth: 0.8653244438m, Max Vel: 0.9840718914m/s, Area: 140850.0m², Vol: 45485.4m³

Step 6400/29999, Sim Time: 2488.311s (+4.491e-01s), Max Depth: 0.8651248615m, Max Vel: 0.9835391391m/s, Area: 141050.0m², Vol: 45635.6m³

Step 6500/29999, Sim Time: 2533.225s (+4.492e-01s), Max Depth: 0.8648278537m, Max Vel: 0.9834097332m/s, Area: 141300.0m², Vol: 45789.2m³

Step 6600/29999, Sim Time: 2578.147s (+4.493e-01s), Max Depth: 0.8645764246m, Max Vel: 0.9830336439m/s, Area: 141350.0m², Vol: 45946.6m³

Step 6700/29999, Sim Time: 2623.073s (+4.493e-01s), Max Depth: 0.8644530148m, Max Vel: 0.9828243235m/s, Area: 141575.0m², Vol: 46106.4m³

Step 6800/29999, Sim Time: 2668.002s (+4.493e-01s), Max Depth: 0.8645129816m, Max Vel: 0.9827590794m/s, Area: 141675.0m², Vol: 46269.3m³

Step 6900/29999, Sim Time: 2712.931s (+4.493e-01s), Max Depth: 0.8645624628m, Max Vel: 0.9828632694m/s, Area: 141825.0m², Vol: 46434.6m³

Step 7000/29999, Sim Time: 2757.858s (+4.492e-01s), Max Depth: 0.8646725412m, Max Vel: 0.9829468022m/s, Area: 142000.0m², Vol: 46601.8m³

Step 7100/29999, Sim Time: 2802.779s (+4.492e-01s), Max Depth: 0.8648616725m, Max Vel: 0.9831364241m/s, Area: 142100.0m², Vol: 46771.5m³

Step 7200/29999, Sim Time: 2847.693s (+4.491e-01s), Max Depth: 0.8651129312m, Max Vel: 0.9833932875m/s, Area: 142300.0m², Vol: 46943.2m³

Step 7300/29999, Sim Time: 2892.600s (+4.490e-01s), Max Depth: 0.8653936750m, Max Vel: 0.9836836516m/s, Area: 142550.0m², Vol: 47118.2m³

Step 7400/29999, Sim Time: 2937.497s (+4.489e-01s), Max Depth: 0.8656813342m, Max Vel: 0.9840037670m/s, Area: 142650.0m², Vol: 47296.1m³

Step 7500/29999, Sim Time: 2982.385s (+4.488e-01s), Max Depth: 0.8659491609m, Max Vel: 0.9843181125m/s, Area: 142950.0m², Vol: 47476.4m³

Step 7600/29999, Sim Time: 3027.264s (+4.488e-01s), Max Depth: 0.8661900093m, Max Vel: 0.9846456131m/s, Area: 143125.0m², Vol: 47660.1m³

Step 7700/29999, Sim Time: 3072.136s (+4.487e-01s), Max Depth: 0.8664220275m, Max Vel: 0.9849010433m/s, Area: 143375.0m², Vol: 47846.2m³

Step 7800/29999, Sim Time: 3117.000s (+4.486e-01s), Max Depth: 0.8666824637m, Max Vel: 0.9851538574m/s, Area: 143500.0m², Vol: 48034.3m³

Step 7900/29999, Sim Time: 3161.856s (+4.485e-01s), Max Depth: 0.8669290504m, Max Vel: 0.9853927159m/s, Area: 143700.0m², Vol: 48222.7m³

Step 8000/29999, Sim Time: 3206.705s (+4.485e-01s), Max Depth: 0.8671140817m, Max Vel: 0.9856073260m/s, Area: 144050.0m², Vol: 48410.9m³

Step 8100/29999, Sim Time: 3251.549s (+4.484e-01s), Max Depth: 0.8672303723m, Max Vel: 0.9857533077m/s, Area: 144200.0m², Vol: 48599.2m³

Step 8200/29999, Sim Time: 3296.390s (+4.484e-01s), Max Depth: 0.8673012923m, Max Vel: 0.9858404810m/s, Area: 144350.0m², Vol: 48786.9m³

Step 8300/29999, Sim Time: 3341.230s (+4.484e-01s), Max Depth: 0.8673132885m, Max Vel: 0.9858684196m/s, Area: 144425.0m², Vol: 48973.9m³

Step 8400/29999, Sim Time: 3386.070s (+4.484e-01s), Max Depth: 0.8672799716m, Max Vel: 0.9858230267m/s, Area: 144525.0m², Vol: 49159.4m³

Step 8500/29999, Sim Time: 3430.911s (+4.484e-01s), Max Depth: 0.8672385612m, Max Vel: 0.9857355517m/s, Area: 144750.0m², Vol: 49344.0m³

Step 8600/29999, Sim Time: 3475.755s (+4.485e-01s), Max Depth: 0.8671383159m, Max Vel: 0.9856953211m/s, Area: 145050.0m², Vol: 49527.8m³

Step 8700/29999, Sim Time: 3520.602s (+4.485e-01s), Max Depth: 0.8669998067m, Max Vel: 0.9855110163m/s, Area: 145200.0m², Vol: 49711.0m³

Step 8800/29999, Sim Time: 3565.453s (+4.485e-01s), Max Depth: 0.8668618238m, Max Vel: 0.9853068046m/s, Area: 145350.0m², Vol: 49892.7m³

Step 8900/29999, Sim Time: 3610.310s (+4.486e-01s), Max Depth: 0.8667701835m, Max Vel: 0.9851440727m/s, Area: 145600.0m², Vol: 50072.3m³

Step 9000/29999, Sim Time: 3655.171s (+4.486e-01s), Max Depth: 0.8665937152m, Max Vel: 0.9850170023m/s, Area: 145675.0m², Vol: 50250.7m³

Step 9100/29999, Sim Time: 3700.038s (+4.487e-01s), Max Depth: 0.8664286272m, Max Vel: 0.9847570425m/s, Area: 145800.0m², Vol: 50427.2m³

Step 9200/29999, Sim Time: 3744.908s (+4.487e-01s), Max Depth: 0.8663096460m, Max Vel: 0.9845298089m/s, Area: 146050.0m², Vol: 50602.1m³

Step 9300/29999, Sim Time: 3789.784s (+4.488e-01s), Max Depth: 0.8662195344m, Max Vel: 0.9844127707m/s, Area: 146175.0m², Vol: 50774.9m³

Step 9400/29999, Sim Time: 3834.665s (+4.488e-01s), Max Depth: 0.8660536190m, Max Vel: 0.9842544471m/s, Area: 146350.0m², Vol: 50944.5m³

Step 9500/29999, Sim Time: 3879.550s (+4.489e-01s), Max Depth: 0.8659085591m, Max Vel: 0.9840157458m/s, Area: 146475.0m², Vol: 51111.7m³

Step 9600/29999, Sim Time: 3924.439s (+4.489e-01s), Max Depth: 0.8658326562m, Max Vel: 0.9838051666m/s, Area: 146625.0m², Vol: 51276.4m³

Step 9700/29999, Sim Time: 3969.332s (+4.489e-01s), Max Depth: 0.8657536068m, Max Vel: 0.9837287087m/s, Area: 146725.0m², Vol: 51439.2m³

Step 9800/29999, Sim Time: 4014.229s (+4.490e-01s), Max Depth: 0.8656387299m, Max Vel: 0.9835753343m/s, Area: 146875.0m², Vol: 51599.3m³

Step 9900/29999, Sim Time: 4059.129s (+4.490e-01s), Max Depth: 0.8655386586m, Max Vel: 0.9834181411m/s, Area: 147050.0m², Vol: 51757.2m³

Step 10000/29999, Sim Time: 4104.032s (+4.490e-01s), Max Depth: 0.8654869287m, Max Vel: 0.9832699116m/s, Area: 147225.0m², Vol: 51913.1m³

Step 10100/29999, Sim Time: 4148.938s (+4.491e-01s), Max Depth: 0.8654012752m, Max Vel: 0.9832237607m/s, Area: 147350.0m², Vol: 52066.3m³

Step 10200/29999, Sim Time: 4193.847s (+4.491e-01s), Max Depth: 0.8652959946m, Max Vel: 0.9830784077m/s, Area: 147600.0m², Vol: 52217.0m³

Step 10300/29999, Sim Time: 4238.759s (+4.491e-01s), Max Depth: 0.8651928682m, Max Vel: 0.9829474607m/s, Area: 147700.0m², Vol: 52366.0m³

Step 10400/29999, Sim Time: 4283.675s (+4.492e-01s), Max Depth: 0.8651758350m, Max Vel: 0.9827759430m/s, Area: 147800.0m², Vol: 52512.1m³

Step 10500/29999, Sim Time: 4328.591s (+4.492e-01s), Max Depth: 0.8651116091m, Max Vel: 0.9829063549m/s, Area: 147850.0m², Vol: 52654.9m³

Step 10600/29999, Sim Time: 4373.510s (+4.492e-01s), Max Depth: 0.8650107510m, Max Vel: 0.9827263491m/s, Area: 148025.0m², Vol: 52793.9m³

Step 10700/29999, Sim Time: 4418.430s (+4.492e-01s), Max Depth: 0.8649465734m, Max Vel: 0.9826141131m/s, Area: 148075.0m², Vol: 52929.5m³

Step 10800/29999, Sim Time: 4463.354s (+4.492e-01s), Max Depth: 0.8649107868m, Max Vel: 0.9825498220m/s, Area: 148150.0m², Vol: 53061.1m³

Step 10900/29999, Sim Time: 4508.280s (+4.493e-01s), Max Depth: 0.8648255511m, Max Vel: 0.9824995728m/s, Area: 148225.0m², Vol: 53188.5m³

Step 11000/29999, Sim Time: 4553.207s (+4.493e-01s), Max Depth: 0.8647608189m, Max Vel: 0.9823837665m/s, Area: 148250.0m², Vol: 53312.2m³

Step 11100/29999, Sim Time: 4598.137s (+4.493e-01s), Max Depth: 0.8647449812m, Max Vel: 0.9822881294m/s, Area: 148275.0m², Vol: 53432.3m³

Step 11200/29999, Sim Time: 4643.067s (+4.493e-01s), Max Depth: 0.8647307034m, Max Vel: 0.9822974736m/s, Area: 148350.0m², Vol: 53549.4m³

Step 11300/29999, Sim Time: 4687.999s (+4.493e-01s), Max Depth: 0.8646844562m, Max Vel: 0.9822471224m/s, Area: 148475.0m², Vol: 53663.9m³

Step 11400/29999, Sim Time: 4732.931s (+4.493e-01s), Max Depth: 0.8646549573m, Max Vel: 0.9821896521m/s, Area: 148575.0m², Vol: 53776.5m³

Step 11500/29999, Sim Time: 4777.865s (+4.493e-01s), Max Depth: 0.8646698260m, Max Vel: 0.9821405203m/s, Area: 148675.0m², Vol: 53887.0m³

Step 11600/29999, Sim Time: 4822.798s (+4.493e-01s), Max Depth: 0.8646599308m, Max Vel: 0.9821643913m/s, Area: 148775.0m², Vol: 53995.4m³

Step 11700/29999, Sim Time: 4867.733s (+4.493e-01s), Max Depth: 0.8646356650m, Max Vel: 0.9821240670m/s, Area: 148875.0m², Vol: 54101.6m³

Step 11800/29999, Sim Time: 4912.667s (+4.494e-01s), Max Depth: 0.8646219321m, Max Vel: 0.9820938340m/s, Area: 149050.0m², Vol: 54206.3m³

Step 11900/29999, Sim Time: 4957.602s (+4.494e-01s), Max Depth: 0.8646398313m, Max Vel: 0.9820632544m/s, Area: 149075.0m², Vol: 54309.6m³

Step 12000/29999, Sim Time: 5002.537s (+4.494e-01s), Max Depth: 0.8646352450m, Max Vel: 0.9820775364m/s, Area: 149200.0m², Vol: 54410.8m³

Step 12100/29999, Sim Time: 5047.473s (+4.494e-01s), Max Depth: 0.8646140490m, Max Vel: 0.9820463036m/s, Area: 149300.0m², Vol: 54510.1m³

Step 12200/29999, Sim Time: 5092.409s (+4.494e-01s), Max Depth: 0.8645986203m, Max Vel: 0.9820084281m/s, Area: 149275.0m², Vol: 54606.8m³

Step 12300/29999, Sim Time: 5137.345s (+4.494e-01s), Max Depth: 0.8646142055m, Max Vel: 0.9819609479m/s, Area: 149350.0m², Vol: 54701.0m³

Step 12400/29999, Sim Time: 5182.282s (+4.494e-01s), Max Depth: 0.8645997425m, Max Vel: 0.9819884265m/s, Area: 149375.0m², Vol: 54792.9m³

Step 12500/29999, Sim Time: 5227.219s (+4.494e-01s), Max Depth: 0.8645766234m, Max Vel: 0.9819274803m/s, Area: 149475.0m², Vol: 54882.2m³

Step 12600/29999, Sim Time: 5272.157s (+4.494e-01s), Max Depth: 0.8645647445m, Max Vel: 0.9818796073m/s, Area: 149450.0m², Vol: 54969.3m³

Step 12700/29999, Sim Time: 5317.096s (+4.494e-01s), Max Depth: 0.8645743301m, Max Vel: 0.9818649085m/s, Area: 149650.0m², Vol: 55054.1m³

Step 12800/29999, Sim Time: 5362.035s (+4.494e-01s), Max Depth: 0.8645467370m, Max Vel: 0.9818516690m/s, Area: 149700.0m², Vol: 55137.5m³

Step 12900/29999, Sim Time: 5406.975s (+4.494e-01s), Max Depth: 0.8645227482m, Max Vel: 0.9817862918m/s, Area: 149800.0m², Vol: 55219.0m³

Step 13000/29999, Sim Time: 5451.915s (+4.494e-01s), Max Depth: 0.8645196573m, Max Vel: 0.9817341963m/s, Area: 149875.0m², Vol: 55298.7m³

Step 13100/29999, Sim Time: 5496.857s (+4.494e-01s), Max Depth: 0.8645005581m, Max Vel: 0.9817330976m/s, Area: 149875.0m², Vol: 55376.9m³

Step 13200/29999, Sim Time: 5541.800s (+4.494e-01s), Max Depth: 0.8644680930m, Max Vel: 0.9816659455m/s, Area: 149950.0m², Vol: 55453.2m³

Step 13300/29999, Sim Time: 5586.743s (+4.494e-01s), Max Depth: 0.8644389582m, Max Vel: 0.9816078530m/s, Area: 150025.0m², Vol: 55527.8m³

Step 13400/29999, Sim Time: 5631.687s (+4.495e-01s), Max Depth: 0.8644293011m, Max Vel: 0.9815611154m/s, Area: 150000.0m², Vol: 55600.4m³

Step 13500/29999, Sim Time: 5676.633s (+4.495e-01s), Max Depth: 0.8643939693m, Max Vel: 0.9815383067m/s, Area: 150000.0m², Vol: 55671.0m³

Step 13600/29999, Sim Time: 5721.580s (+4.495e-01s), Max Depth: 0.8643545030m, Max Vel: 0.9814577425m/s, Area: 150100.0m², Vol: 55739.9m³

Step 13700/29999, Sim Time: 5766.528s (+4.495e-01s), Max Depth: 0.8643238377m, Max Vel: 0.9813932081m/s, Area: 150175.0m², Vol: 55807.4m³

Step 13800/29999, Sim Time: 5811.477s (+4.495e-01s), Max Depth: 0.8643080080m, Max Vel: 0.9813534258m/s, Area: 150175.0m², Vol: 55873.3m³

Step 13900/29999, Sim Time: 5856.428s (+4.495e-01s), Max Depth: 0.8642659618m, Max Vel: 0.9813158339m/s, Area: 150200.0m², Vol: 55938.0m³

Step 14000/29999, Sim Time: 5901.379s (+4.495e-01s), Max Depth: 0.8642239904m, Max Vel: 0.9812475830m/s, Area: 150250.0m², Vol: 56001.5m³

Step 14100/29999, Sim Time: 5946.332s (+4.495e-01s), Max Depth: 0.8641962187m, Max Vel: 0.9811758630m/s, Area: 150300.0m², Vol: 56064.1m³

Step 14200/29999, Sim Time: 5991.286s (+4.495e-01s), Max Depth: 0.8641868214m, Max Vel: 0.9811393231m/s, Area: 150300.0m², Vol: 56125.9m³

Step 14300/29999, Sim Time: 6036.242s (+4.496e-01s), Max Depth: 0.8641352928m, Max Vel: 0.9811140054m/s, Area: 150325.0m², Vol: 56187.0m³

Step 14400/29999, Sim Time: 6081.199s (+4.496e-01s), Max Depth: 0.8640890941m, Max Vel: 0.9810366007m/s, Area: 150325.0m², Vol: 56247.3m³

Step 14500/29999, Sim Time: 6126.156s (+4.496e-01s), Max Depth: 0.8640676984m, Max Vel: 0.9809648460m/s, Area: 150350.0m², Vol: 56306.8m³

Step 14600/29999, Sim Time: 6171.116s (+4.496e-01s), Max Depth: 0.8640516019m, Max Vel: 0.9809489876m/s, Area: 150375.0m², Vol: 56365.8m³

Step 14700/29999, Sim Time: 6216.076s (+4.496e-01s), Max Depth: 0.8639969002m, Max Vel: 0.9809068505m/s, Area: 150350.0m², Vol: 56424.2m³

Step 14800/29999, Sim Time: 6261.038s (+4.496e-01s), Max Depth: 0.8639488970m, Max Vel: 0.9808322124m/s, Area: 150375.0m², Vol: 56482.3m³

Step 14900/29999, Sim Time: 6306.001s (+4.496e-01s), Max Depth: 0.8639273039m, Max Vel: 0.9807656933m/s, Area: 150450.0m², Vol: 56540.1m³

Step 15000/29999, Sim Time: 6350.965s (+4.496e-01s), Max Depth: 0.8638914955m, Max Vel: 0.9807696165m/s, Area: 150450.0m², Vol: 56597.8m³

Step 15100/29999, Sim Time: 6395.931s (+4.497e-01s), Max Depth: 0.8638323371m, Max Vel: 0.9806972320m/s, Area: 150450.0m², Vol: 56655.0m³

Step 15200/29999, Sim Time: 6440.898s (+4.497e-01s), Max Depth: 0.8637808960m, Max Vel: 0.9806250768m/s, Area: 150450.0m², Vol: 56711.7m³

Step 15300/29999, Sim Time: 6485.867s (+4.497e-01s), Max Depth: 0.8637673783m, Max Vel: 0.9805653921m/s, Area: 150400.0m², Vol: 56767.9m³

Step 15400/29999, Sim Time: 6530.837s (+4.497e-01s), Max Depth: 0.8637133552m, Max Vel: 0.9805654702m/s, Area: 150475.0m², Vol: 56823.5m³

Step 15500/29999, Sim Time: 6575.808s (+4.497e-01s), Max Depth: 0.8636507157m, Max Vel: 0.9804802610m/s, Area: 150525.0m², Vol: 56879.3m³

Step 15600/29999, Sim Time: 6620.782s (+4.498e-01s), Max Depth: 0.8635902058m, Max Vel: 0.9804031875m/s, Area: 150575.0m², Vol: 56935.6m³

Step 15700/29999, Sim Time: 6665.757s (+4.498e-01s), Max Depth: 0.8635256971m, Max Vel: 0.9803215997m/s, Area: 150600.0m², Vol: 56992.3m³

Step 15800/29999, Sim Time: 6710.737s (+4.498e-01s), Max Depth: 0.8634105350m, Max Vel: 0.9802655876m/s, Area: 150625.0m², Vol: 57050.0m³

Step 15900/29999, Sim Time: 6755.719s (+4.498e-01s), Max Depth: 0.8632618804m, Max Vel: 0.9801041738m/s, Area: 150600.0m², Vol: 57108.7m³

Step 16000/29999, Sim Time: 6800.705s (+4.499e-01s), Max Depth: 0.8632266883m, Max Vel: 0.9799700777m/s, Area: 150650.0m², Vol: 57168.2m³

Step 16100/29999, Sim Time: 6845.693s (+4.499e-01s), Max Depth: 0.8631263306m, Max Vel: 0.9799504081m/s, Area: 150700.0m², Vol: 57229.1m³

Step 16200/29999, Sim Time: 6890.684s (+4.499e-01s), Max Depth: 0.8630641024m, Max Vel: 0.9798645417m/s, Area: 150700.0m², Vol: 57293.2m³

Step 16300/29999, Sim Time: 6935.677s (+4.500e-01s), Max Depth: 0.8629377203m, Max Vel: 0.9797645484m/s, Area: 150850.0m², Vol: 57361.9m³

Step 16400/29999, Sim Time: 6980.673s (+4.500e-01s), Max Depth: 0.8629138204m, Max Vel: 0.9796680995m/s, Area: 150875.0m², Vol: 57438.4m³

Step 16500/29999, Sim Time: 7025.671s (+4.500e-01s), Max Depth: 0.8628188085m, Max Vel: 0.9796721636m/s, Area: 151025.0m², Vol: 57530.7m³

Step 16600/29999, Sim Time: 7070.672s (+4.500e-01s), Max Depth: 0.8627071515m, Max Vel: 0.9795609637m/s, Area: 151150.0m², Vol: 57663.6m³

Step 16700/29999, Sim Time: 7115.674s (+4.500e-01s), Max Depth: 0.8626337373m, Max Vel: 0.9794604538m/s, Area: 151325.0m², Vol: 57849.6m³

Step 16800/29999, Sim Time: 7160.680s (+4.501e-01s), Max Depth: 0.8625709604m, Max Vel: 0.9793911255m/s, Area: 151325.0m², Vol: 58071.5m³

Step 16900/29999, Sim Time: 7205.688s (+4.501e-01s), Max Depth: 0.8625131264m, Max Vel: 0.9793981989m/s, Area: 151525.0m², Vol: 58281.2m³

Step 17000/29999, Sim Time: 7250.698s (+4.501e-01s), Max Depth: 0.8623536614m, Max Vel: 0.9792731738m/s, Area: 151575.0m², Vol: 58465.0m³

Step 17100/29999, Sim Time: 7295.711s (+4.502e-01s), Max Depth: 0.8622000279m, Max Vel: 0.9791411295m/s, Area: 151675.0m², Vol: 58628.3m³

Step 17200/29999, Sim Time: 7340.728s (+4.502e-01s), Max Depth: 0.8621603623m, Max Vel: 0.9790553294m/s, Area: 151700.0m², Vol: 58771.5m³

Step 17300/29999, Sim Time: 7385.750s (+4.502e-01s), Max Depth: 0.8620709144m, Max Vel: 0.9789729304m/s, Area: 151725.0m², Vol: 58903.2m³

Step 17400/29999, Sim Time: 7430.773s (+4.503e-01s), Max Depth: 0.8619376609m, Max Vel: 0.9788298804m/s, Area: 151900.0m², Vol: 59030.6m³

Step 17500/29999, Sim Time: 7475.800s (+4.503e-01s), Max Depth: 0.8618444054m, Max Vel: 0.9787261345m/s, Area: 152025.0m², Vol: 59156.3m³

Step 17600/29999, Sim Time: 7520.828s (+4.503e-01s), Max Depth: 0.8618200480m, Max Vel: 0.9787252465m/s, Area: 152100.0m², Vol: 59275.1m³

Step 17700/29999, Sim Time: 7565.859s (+4.503e-01s), Max Depth: 0.8617928662m, Max Vel: 0.9786532941m/s, Area: 152150.0m², Vol: 59383.8m³

Step 17800/29999, Sim Time: 7610.890s (+4.503e-01s), Max Depth: 0.8617154027m, Max Vel: 0.9785817019m/s, Area: 152300.0m², Vol: 59485.2m³

Step 17900/29999, Sim Time: 7655.924s (+4.503e-01s), Max Depth: 0.8616457820m, Max Vel: 0.9785266618m/s, Area: 152325.0m², Vol: 59581.7m³

Step 18000/29999, Sim Time: 7700.959s (+4.504e-01s), Max Depth: 0.8615862774m, Max Vel: 0.9785422236m/s, Area: 152300.0m², Vol: 59673.9m³

Step 18100/29999, Sim Time: 7745.996s (+4.504e-01s), Max Depth: 0.8615332136m, Max Vel: 0.9784345710m/s, Area: 152350.0m², Vol: 59761.6m³

Step 18200/29999, Sim Time: 7791.035s (+4.504e-01s), Max Depth: 0.8614210953m, Max Vel: 0.9783225975m/s, Area: 152350.0m², Vol: 59844.4m³

Step 18300/29999, Sim Time: 7836.078s (+4.505e-01s), Max Depth: 0.8612977085m, Max Vel: 0.9782045005m/s, Area: 152450.0m², Vol: 59922.2m³

Step 18400/29999, Sim Time: 7881.126s (+4.505e-01s), Max Depth: 0.8611288532m, Max Vel: 0.9781745022m/s, Area: 152400.0m², Vol: 59996.2m³

Step 18500/29999, Sim Time: 7926.177s (+4.505e-01s), Max Depth: 0.8610170674m, Max Vel: 0.9779781134m/s, Area: 152350.0m², Vol: 60067.1m³

Step 18600/29999, Sim Time: 7971.232s (+4.506e-01s), Max Depth: 0.8609289304m, Max Vel: 0.9778239570m/s, Area: 152400.0m², Vol: 60136.0m³

Step 18700/29999, Sim Time: 8016.290s (+4.506e-01s), Max Depth: 0.8608147241m, Max Vel: 0.9777809066m/s, Area: 152450.0m², Vol: 60204.2m³

Step 18800/29999, Sim Time: 8061.353s (+4.506e-01s), Max Depth: 0.8606431505m, Max Vel: 0.9776822752m/s, Area: 152450.0m², Vol: 60272.0m³

Step 18900/29999, Sim Time: 8106.418s (+4.507e-01s), Max Depth: 0.8605613542m, Max Vel: 0.9775424791m/s, Area: 152500.0m², Vol: 60339.6m³

Step 19000/29999, Sim Time: 8151.486s (+4.507e-01s), Max Depth: 0.8605401139m, Max Vel: 0.9774180269m/s, Area: 152600.0m², Vol: 60407.5m³

Step 19100/29999, Sim Time: 8196.557s (+4.507e-01s), Max Depth: 0.8604327379m, Max Vel: 0.9773913227m/s, Area: 152650.0m², Vol: 60477.1m³

Step 19200/29999, Sim Time: 8241.632s (+4.508e-01s), Max Depth: 0.8602375773m, Max Vel: 0.9772434758m/s, Area: 152650.0m², Vol: 60550.3m³

Step 19300/29999, Sim Time: 8286.710s (+4.508e-01s), Max Depth: 0.8600957305m, Max Vel: 0.9770599485m/s, Area: 152675.0m², Vol: 60628.7m³

Step 19400/29999, Sim Time: 8331.793s (+4.508e-01s), Max Depth: 0.8603098773m, Max Vel: 0.9768835888m/s, Area: 152675.0m², Vol: 60716.5m³

Step 19500/29999, Sim Time: 8376.865s (+4.507e-01s), Max Depth: 0.8610884815m, Max Vel: 0.9768010876m/s, Area: 152725.0m², Vol: 60825.2m³

Step 19600/29999, Sim Time: 8421.952s (+4.510e-01s), Max Depth: 0.8596462045m, Max Vel: 0.9765611419m/s, Area: 152775.0m², Vol: 60948.0m³

Step 19700/29999, Sim Time: 8466.983s (+4.496e-01s), Max Depth: 0.8666091054m, Max Vel: 0.9763609191m/s, Area: 152775.0m², Vol: 61066.3m³

Step 19800/29999, Sim Time: 8511.910s (+4.490e-01s), Max Depth: 0.8698297082m, Max Vel: 0.9762093156m/s, Area: 152875.0m², Vol: 61169.8m³

Step 19900/29999, Sim Time: 8556.799s (+4.488e-01s), Max Depth: 0.8710060094m, Max Vel: 0.9760367059m/s, Area: 152925.0m², Vol: 61259.4m³

Step 20000/29999, Sim Time: 8601.686s (+4.489e-01s), Max Depth: 0.8707304545m, Max Vel: 0.9757367363m/s, Area: 152975.0m², Vol: 61334.7m³

Step 20100/29999, Sim Time: 8646.578s (+4.490e-01s), Max Depth: 0.8705333746m, Max Vel: 0.9754645692m/s, Area: 153000.0m², Vol: 61399.2m³

Step 20200/29999, Sim Time: 8691.478s (+4.490e-01s), Max Depth: 0.8703332592m, Max Vel: 0.9753695744m/s, Area: 153025.0m², Vol: 61456.1m³

Step 20300/29999, Sim Time: 8736.385s (+4.491e-01s), Max Depth: 0.8700319868m, Max Vel: 0.9750905728m/s, Area: 153000.0m², Vol: 61506.6m³

Step 20400/29999, Sim Time: 8781.299s (+4.492e-01s), Max Depth: 0.8698493480m, Max Vel: 0.9748495562m/s, Area: 153000.0m², Vol: 61552.9m³

Step 20500/29999, Sim Time: 8826.219s (+4.492e-01s), Max Depth: 0.8697012808m, Max Vel: 0.9746560348m/s, Area: 153000.0m², Vol: 61595.5m³

Step 20600/29999, Sim Time: 8871.143s (+4.492e-01s), Max Depth: 0.8698002963m, Max Vel: 0.9745286166m/s, Area: 152950.0m², Vol: 61635.9m³

Step 20700/29999, Sim Time: 8916.066s (+4.492e-01s), Max Depth: 0.8699095935m, Max Vel: 0.9742646752m/s, Area: 152950.0m², Vol: 61674.2m³

Step 20800/29999, Sim Time: 8960.989s (+4.493e-01s), Max Depth: 0.8699497790m, Max Vel: 0.9740220482m/s, Area: 152925.0m², Vol: 61710.1m³

Step 20900/29999, Sim Time: 9005.916s (+4.493e-01s), Max Depth: 0.8698988111m, Max Vel: 0.9738731023m/s, Area: 152950.0m², Vol: 61743.6m³

Step 21000/29999, Sim Time: 9050.846s (+4.493e-01s), Max Depth: 0.8698735512m, Max Vel: 0.9736171668m/s, Area: 152950.0m², Vol: 61775.2m³

Step 21100/29999, Sim Time: 9095.779s (+4.493e-01s), Max Depth: 0.8698816034m, Max Vel: 0.9733023095m/s, Area: 152925.0m², Vol: 61805.5m³

Step 21200/29999, Sim Time: 9140.715s (+4.494e-01s), Max Depth: 0.8699146656m, Max Vel: 0.9730040365m/s, Area: 152900.0m², Vol: 61834.3m³

Step 21300/29999, Sim Time: 9185.653s (+4.494e-01s), Max Depth: 0.8699245303m, Max Vel: 0.9728524929m/s, Area: 152875.0m², Vol: 61861.9m³

Step 21400/29999, Sim Time: 9230.595s (+4.494e-01s), Max Depth: 0.8699206361m, Max Vel: 0.9724645516m/s, Area: 152925.0m², Vol: 61888.4m³

Step 21500/29999, Sim Time: 9275.541s (+4.495e-01s), Max Depth: 0.8699150290m, Max Vel: 0.9720933127m/s, Area: 152925.0m², Vol: 61914.0m³

Step 21600/29999, Sim Time: 9320.490s (+4.495e-01s), Max Depth: 0.8699203071m, Max Vel: 0.9717995326m/s, Area: 152925.0m², Vol: 61938.7m³

Step 21700/29999, Sim Time: 9365.445s (+4.496e-01s), Max Depth: 0.8699293757m, Max Vel: 0.9713435829m/s, Area: 152925.0m², Vol: 61963.0m³

Step 21800/29999, Sim Time: 9410.405s (+4.496e-01s), Max Depth: 0.8699346874m, Max Vel: 0.9706463158m/s, Area: 152925.0m², Vol: 61986.4m³

Step 21900/29999, Sim Time: 9455.373s (+4.497e-01s), Max Depth: 0.8699367473m, Max Vel: 0.9698759902m/s, Area: 152925.0m², Vol: 62009.0m³

Step 22000/29999, Sim Time: 9500.350s (+4.498e-01s), Max Depth: 0.8699371036m, Max Vel: 0.9694003260m/s, Area: 152925.0m², Vol: 62030.8m³

Step 22100/29999, Sim Time: 9545.336s (+4.499e-01s), Max Depth: 0.8699406489m, Max Vel: 0.9683459178m/s, Area: 152900.0m², Vol: 62051.9m³

Step 22200/29999, Sim Time: 9590.330s (+4.500e-01s), Max Depth: 0.8699438016m, Max Vel: 0.9675075655m/s, Area: 152800.0m², Vol: 62071.5m³

Step 22300/29999, Sim Time: 9635.332s (+4.500e-01s), Max Depth: 0.8699473878m, Max Vel: 0.9672195074m/s, Area: 152800.0m², Vol: 62090.2m³

Step 22400/29999, Sim Time: 9680.342s (+4.501e-01s), Max Depth: 0.8699490127m, Max Vel: 0.9664804027m/s, Area: 152800.0m², Vol: 62108.1m³

Step 22500/29999, Sim Time: 9725.356s (+4.502e-01s), Max Depth: 0.8699508770m, Max Vel: 0.9660683831m/s, Area: 152800.0m², Vol: 62125.6m³

Step 22600/29999, Sim Time: 9770.371s (+4.501e-01s), Max Depth: 0.8699524531m, Max Vel: 0.9664491159m/s, Area: 152750.0m², Vol: 62142.2m³

Step 22700/29999, Sim Time: 9815.387s (+4.502e-01s), Max Depth: 0.8699543971m, Max Vel: 0.9658545154m/s, Area: 152700.0m², Vol: 62157.5m³

Step 22800/29999, Sim Time: 9860.413s (+4.503e-01s), Max Depth: 0.8699559841m, Max Vel: 0.9649890060m/s, Area: 152675.0m², Vol: 62172.0m³

Step 22900/29999, Sim Time: 9905.445s (+4.503e-01s), Max Depth: 0.8699571644m, Max Vel: 0.9649587779m/s, Area: 152600.0m², Vol: 62186.0m³

Step 23000/29999, Sim Time: 9950.481s (+4.504e-01s), Max Depth: 0.8699580538m, Max Vel: 0.9637862864m/s, Area: 152575.0m², Vol: 62199.7m³

Step 23100/29999, Sim Time: 9995.518s (+4.504e-01s), Max Depth: 0.8699588074m, Max Vel: 0.9636218746m/s, Area: 152575.0m², Vol: 62213.1m³

Step 23200/29999, Sim Time: 10040.561s (+4.504e-01s), Max Depth: 0.8699595865m, Max Vel: 0.9636578166m/s, Area: 152550.0m², Vol: 62226.2m³

Step 23300/29999, Sim Time: 10085.608s (+4.504e-01s), Max Depth: 0.8699601737m, Max Vel: 0.9643958012m/s, Area: 152500.0m², Vol: 62238.7m³

Step 23400/29999, Sim Time: 10130.650s (+4.504e-01s), Max Depth: 0.8699606459m, Max Vel: 0.9639056469m/s, Area: 152500.0m², Vol: 62250.9m³

Step 23500/29999, Sim Time: 10175.687s (+4.503e-01s), Max Depth: 0.8699608493m, Max Vel: 0.9646935613m/s, Area: 152475.0m², Vol: 62263.0m³

Step 23600/29999, Sim Time: 10220.722s (+4.504e-01s), Max Depth: 0.8699609594m, Max Vel: 0.9640742203m/s, Area: 152400.0m², Vol: 62274.7m³

Step 23700/29999, Sim Time: 10265.752s (+4.504e-01s), Max Depth: 0.8699608778m, Max Vel: 0.9644752923m/s, Area: 152300.0m², Vol: 62285.8m³

Step 23800/29999, Sim Time: 10310.781s (+4.502e-01s), Max Depth: 0.8699606110m, Max Vel: 0.9660424828m/s, Area: 152350.0m², Vol: 62296.5m³

Step 23900/29999, Sim Time: 10355.806s (+4.502e-01s), Max Depth: 0.8699601705m, Max Vel: 0.9658822032m/s, Area: 152325.0m², Vol: 62307.2m³

Step 24000/29999, Sim Time: 10400.825s (+4.502e-01s), Max Depth: 0.8699596077m, Max Vel: 0.9656895219m/s, Area: 152275.0m², Vol: 62317.7m³

Step 24100/29999, Sim Time: 10445.843s (+4.501e-01s), Max Depth: 0.8699589112m, Max Vel: 0.9663294128m/s, Area: 152225.0m², Vol: 62328.1m³

Step 24200/29999, Sim Time: 10490.855s (+4.502e-01s), Max Depth: 0.8699580721m, Max Vel: 0.9659585868m/s, Area: 152200.0m², Vol: 62338.5m³

Step 24300/29999, Sim Time: 10535.864s (+4.500e-01s), Max Depth: 0.8699571643m, Max Vel: 0.9671261935m/s, Area: 152175.0m², Vol: 62348.8m³

Step 24400/29999, Sim Time: 10580.867s (+4.499e-01s), Max Depth: 0.8699562062m, Max Vel: 0.9682792999m/s, Area: 152100.0m², Vol: 62358.8m³

Step 24500/29999, Sim Time: 10625.861s (+4.499e-01s), Max Depth: 0.8699551380m, Max Vel: 0.9682373475m/s, Area: 152050.0m², Vol: 62368.7m³

Step 24600/29999, Sim Time: 10670.845s (+4.498e-01s), Max Depth: 0.8699538795m, Max Vel: 0.9695310419m/s, Area: 152050.0m², Vol: 62378.6m³

Step 24700/29999, Sim Time: 10715.820s (+4.497e-01s), Max Depth: 0.8699523332m, Max Vel: 0.9697614063m/s, Area: 152025.0m², Vol: 62388.6m³

Step 24800/29999, Sim Time: 10760.784s (+4.496e-01s), Max Depth: 0.8699507400m, Max Vel: 0.9706825315m/s, Area: 151975.0m², Vol: 62398.5m³

Step 24900/29999, Sim Time: 10805.739s (+4.494e-01s), Max Depth: 0.8699491892m, Max Vel: 0.9725311427m/s, Area: 151975.0m², Vol: 62408.2m³

Step 25000/29999, Sim Time: 10850.685s (+4.494e-01s), Max Depth: 0.8699475422m, Max Vel: 0.9727726673m/s, Area: 151925.0m², Vol: 62418.0m³

Step 25100/29999, Sim Time: 10895.621s (+4.494e-01s), Max Depth: 0.8699457605m, Max Vel: 0.9729404672m/s, Area: 151825.0m², Vol: 62427.4m³

Step 25200/29999, Sim Time: 10940.549s (+4.492e-01s), Max Depth: 0.8699439177m, Max Vel: 0.9745253841m/s, Area: 151800.0m², Vol: 62436.7m³

Step 25300/29999, Sim Time: 10985.470s (+4.492e-01s), Max Depth: 0.8699420100m, Max Vel: 0.9746927069m/s, Area: 151775.0m², Vol: 62446.0m³

Step 25400/29999, Sim Time: 11030.381s (+4.491e-01s), Max Depth: 0.8699399932m, Max Vel: 0.9751424555m/s, Area: 151725.0m², Vol: 62455.2m³

Step 25500/29999, Sim Time: 11075.284s (+4.489e-01s), Max Depth: 0.8699378443m, Max Vel: 0.9767430060m/s, Area: 151700.0m², Vol: 62464.4m³

Step 25600/29999, Sim Time: 11120.176s (+4.490e-01s), Max Depth: 0.8699355750m, Max Vel: 0.9764568369m/s, Area: 151675.0m², Vol: 62473.8m³

Step 25700/29999, Sim Time: 11165.060s (+4.487e-01s), Max Depth: 0.8699332070m, Max Vel: 0.9785443936m/s, Area: 151650.0m², Vol: 62483.4m³

Step 25800/29999, Sim Time: 11209.937s (+4.487e-01s), Max Depth: 0.8699307876m, Max Vel: 0.9787188273m/s, Area: 151650.0m², Vol: 62493.1m³

Step 25900/29999, Sim Time: 11254.805s (+4.486e-01s), Max Depth: 0.8699283707m, Max Vel: 0.9794462639m/s, Area: 151675.0m², Vol: 62503.1m³

Step 26000/29999, Sim Time: 11299.664s (+4.486e-01s), Max Depth: 0.8699258166m, Max Vel: 0.9799226815m/s, Area: 151650.0m², Vol: 62513.2m³

Step 26100/29999, Sim Time: 11344.515s (+4.485e-01s), Max Depth: 0.8699230486m, Max Vel: 0.9807778212m/s, Area: 151550.0m², Vol: 62523.2m³

Step 26200/29999, Sim Time: 11389.359s (+4.485e-01s), Max Depth: 0.8699200934m, Max Vel: 0.9809610614m/s, Area: 151525.0m², Vol: 62533.5m³

Step 26300/29999, Sim Time: 11434.195s (+4.483e-01s), Max Depth: 0.8699170430m, Max Vel: 0.9826351618m/s, Area: 151475.0m², Vol: 62544.0m³

Step 26400/29999, Sim Time: 11479.025s (+4.482e-01s), Max Depth: 0.8699139729m, Max Vel: 0.9828992683m/s, Area: 151475.0m², Vol: 62554.8m³

Step 26500/29999, Sim Time: 11523.847s (+4.482e-01s), Max Depth: 0.8699108318m, Max Vel: 0.9835158571m/s, Area: 151500.0m², Vol: 62566.0m³

Step 26600/29999, Sim Time: 11568.663s (+4.481e-01s), Max Depth: 0.8699075900m, Max Vel: 0.9840207132m/s, Area: 151525.0m², Vol: 62577.5m³

Step 26700/29999, Sim Time: 11613.473s (+4.481e-01s), Max Depth: 0.8699042606m, Max Vel: 0.9838667586m/s, Area: 151475.0m², Vol: 62589.2m³

Step 26800/29999, Sim Time: 11658.279s (+4.481e-01s), Max Depth: 0.8699006349m, Max Vel: 0.9843067962m/s, Area: 151425.0m², Vol: 62601.0m³

Step 26900/29999, Sim Time: 11703.081s (+4.480e-01s), Max Depth: 0.8698970443m, Max Vel: 0.9850317030m/s, Area: 151450.0m², Vol: 62613.0m³

Step 27000/29999, Sim Time: 11747.880s (+4.480e-01s), Max Depth: 0.8698935111m, Max Vel: 0.9853111149m/s, Area: 151375.0m², Vol: 62625.2m³

Step 27100/29999, Sim Time: 11792.676s (+4.479e-01s), Max Depth: 0.8698900213m, Max Vel: 0.9858526878m/s, Area: 151400.0m², Vol: 62637.7m³

Step 27200/29999, Sim Time: 11837.469s (+4.479e-01s), Max Depth: 0.8698864171m, Max Vel: 0.9859661275m/s, Area: 151425.0m², Vol: 62650.5m³

Step 27300/29999, Sim Time: 11882.259s (+4.479e-01s), Max Depth: 0.8698826017m, Max Vel: 0.9860403145m/s, Area: 151425.0m², Vol: 62663.6m³

Step 27400/29999, Sim Time: 11927.045s (+4.479e-01s), Max Depth: 0.8698784932m, Max Vel: 0.9856403333m/s, Area: 151575.0m², Vol: 62677.0m³

Step 27500/29999, Sim Time: 11971.830s (+4.478e-01s), Max Depth: 0.8698746869m, Max Vel: 0.9866058914m/s, Area: 151900.0m², Vol: 62690.7m³

Step 27600/29999, Sim Time: 12004.793s (+1.354e-01s), Max Depth: 0.8698720302m, Max Vel: 9.9999999990m/s, Area: 152250.0m², Vol: 62701.9m³

Step 27700/29999, Sim Time: 12018.437s (+1.354e-01s), Max Depth: 0.8698709355m, Max Vel: 9.9999999990m/s, Area: 152850.0m², Vol: 62705.7m³

Step 27800/29999, Sim Time: 12031.981s (+1.354e-01s), Max Depth: 0.8698698394m, Max Vel: 9.9999999990m/s, Area: 153150.0m², Vol: 62709.4m³

Step 27900/29999, Sim Time: 12045.524s (+1.354e-01s), Max Depth: 0.8698687082m, Max Vel: 9.9999999990m/s, Area: 153275.0m², Vol: 62713.2m³

Step 28000/29999, Sim Time: 12059.068s (+1.354e-01s), Max Depth: 0.8698675387m, Max Vel: 9.9999999990m/s, Area: 153725.0m², Vol: 62716.9m³

Step 28100/29999, Sim Time: 12072.612s (+1.354e-01s), Max Depth: 0.8698684728m, Max Vel: 9.9999999990m/s, Area: 154250.0m², Vol: 62720.6m³

Step 28200/29999, Sim Time: 12086.155s (+1.354e-01s), Max Depth: 0.8698686172m, Max Vel: 9.9999999990m/s, Area: 154925.0m², Vol: 62724.1m³

Step 28300/29999, Sim Time: 12099.699s (+1.354e-01s), Max Depth: 0.8698893081m, Max Vel: 9.9999999990m/s, Area: 156300.0m², Vol: 62727.6m³

Step 28400/29999, Sim Time: 12113.242s (+1.354e-01s), Max Depth: 0.8699005645m, Max Vel: 9.9999999990m/s, Area: 157125.0m², Vol: 62730.8m³

Step 28500/29999, Sim Time: 12126.786s (+1.354e-01s), Max Depth: 0.8698988182m, Max Vel: 9.9999999990m/s, Area: 158750.0m², Vol: 62733.6m³

Step 28600/29999, Sim Time: 12140.330s (+1.354e-01s), Max Depth: 0.8698875408m, Max Vel: 9.9999999990m/s, Area: 160175.0m², Vol: 62735.6m³

Step 28700/29999, Sim Time: 12153.873s (+1.354e-01s), Max Depth: 0.8698673458m, Max Vel: 9.9999999990m/s, Area: 162175.0m², Vol: 62737.1m³

Step 28800/29999, Sim Time: 12167.417s (+1.354e-01s), Max Depth: 0.8698298881m, Max Vel: 9.9999999990m/s, Area: 164525.0m², Vol: 62737.7m³

Step 28900/29999, Sim Time: 12180.961s (+1.354e-01s), Max Depth: 0.8697895503m, Max Vel: 9.9999999990m/s, Area: 167725.0m², Vol: 62737.7m³

Step 29000/29999, Sim Time: 12194.504s (+1.354e-01s), Max Depth: 0.8697579815m, Max Vel: 9.9999999990m/s, Area: 172300.0m², Vol: 62736.3m³

Step 29100/29999, Sim Time: 12208.048s (+1.354e-01s), Max Depth: 0.8697374059m, Max Vel: 9.9999999990m/s, Area: 177150.0m², Vol: 62733.5m³

Step 29200/29999, Sim Time: 12221.592s (+1.354e-01s), Max Depth: 0.8697075523m, Max Vel: 9.9999999990m/s, Area: 180925.0m², Vol: 62729.5m³

Step 29300/29999, Sim Time: 12235.136s (+1.354e-01s), Max Depth: 0.8697097449m, Max Vel: 9.9999999990m/s, Area: 185975.0m², Vol: 62723.2m³

Step 29400/29999, Sim Time: 12248.680s (+1.354e-01s), Max Depth: 0.8696972798m, Max Vel: 9.9999999990m/s, Area: 189925.0m², Vol: 62715.1m³

Step 29500/29999, Sim Time: 12262.224s (+1.354e-01s), Max Depth: 0.8697236793m, Max Vel: 9.9999999990m/s, Area: 192825.0m², Vol: 62705.5m³

Step 29600/29999, Sim Time: 12275.768s (+1.354e-01s), Max Depth: 0.8698115698m, Max Vel: 9.9999999990m/s, Area: 197575.0m², Vol: 62694.9m³

Step 29700/29999, Sim Time: 12289.311s (+1.354e-01s), Max Depth: 0.8699850809m, Max Vel: 9.9999999990m/s, Area: 203100.0m², Vol: 62682.9m³

Step 29800/29999, Sim Time: 12302.855s (+1.354e-01s), Max Depth: 0.8701833451m, Max Vel: 9.9999999990m/s, Area: 207950.0m², Vol: 62671.8m³

Step 29900/29999, Sim Time: 12316.397s (+1.354e-01s), Max Depth: 0.8703825219m, Max Vel: 9.9999999990m/s, Area: 216075.0m², Vol: 62660.3m³

Step 29999/29999, Sim Time: 12329.805s (+1.354e-01s), Max Depth: 0.8705411197m, Max Vel: 9.9999999990m/s, Area: 222850.0m², Vol: 62647.9m³

Simulation finished 30000 steps in 223.20 seconds (wall clock).

Final Maximum Flood Extent Area: 445075.00 m²

Peak Recorded Water Depth Anywhere: 2.951 m

Phase 2 max depth: 0.871 m, steady state max depth: 0.734 m, rate of increase: 0.000011 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\_source2\_5\_rain3\_046875.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_source2\_5\_rain3\_046875\_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 6.09375 --output-freq 100 -o result\_source2\_5\_rain6\_09375.mp4 --save --source-row 50 --source-col 1 --source-rate 2.5

--- 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 162.57 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=1.6927083333333333e-06 m/s, duration=30000 steps

Added rainfall for Phase 2: 6.09375 mm/hr

Step 0/29999, Sim Time: 0.545s (+5.454e-01s), Max Depth: 0.7337679598m, Max Vel: 0.5258271432m/s, Area: 130825.0m², Vol: 39720.8m³

Step 100/29999, Sim Time: 48.377s (+3.773e-01s), Max Depth: 1.3501569506m, Max Vel: 1.0164128711m/s, Area: 130875.0m², Vol: 39835.9m³

Step 200/29999, Sim Time: 81.336s (+2.963e-01s), Max Depth: 2.1418702885m, Max Vel: 1.3333964239m/s, Area: 130850.0m², Vol: 39915.1m³

Step 300/29999, Sim Time: 108.800s (+2.572e-01s), Max Depth: 2.7109258348m, Max Vel: 1.6547422107m/s, Area: 130925.0m², Vol: 39981.7m³

Step 400/29999, Sim Time: 133.264s (+2.355e-01s), Max Depth: 2.9493956950m, Max Vel: 2.0558349810m/s, Area: 130950.0m², Vol: 40043.6m³

Step 500/29999, Sim Time: 157.207s (+2.533e-01s), Max Depth: 2.6476585303m, Max Vel: 1.8037051457m/s, Area: 131025.0m², Vol: 40105.2m³

Step 600/29999, Sim Time: 183.077s (+2.863e-01s), Max Depth: 2.1123644213m, Max Vel: 1.5541916139m/s, Area: 131100.0m², Vol: 40172.3m³

Step 700/29999, Sim Time: 203.813s (+3.281e-01s), Max Depth: 1.6500791693m, Max Vel: 1.2899235080m/s, Area: 131125.0m², Vol: 40232.7m³

Step 800/29999, Sim Time: 239.788s (+3.350e-01s), Max Depth: 1.3031672014m, Max Vel: 1.7600288232m/s, Area: 131300.0m², Vol: 40330.9m³

Step 900/29999, Sim Time: 265.828s (+2.906e-01s), Max Depth: 1.2883155817m, Max Vel: 0.8223215978m/s, Area: 131450.0m², Vol: 40402.7m³

Step 1000/29999, Sim Time: 294.306s (+1.288e-01s), Max Depth: 1.3133317366m, Max Vel: 9.9999999993m/s, Area: 131675.0m², Vol: 40487.2m³

Step 1100/29999, Sim Time: 330.133s (+3.900e-01s), Max Depth: 1.2944075504m, Max Vel: 0.9238912553m/s, Area: 131950.0m², Vol: 40590.5m³

Step 1200/29999, Sim Time: 368.223s (+3.710e-01s), Max Depth: 1.3141264723m, Max Vel: 1.1287541112m/s, Area: 132200.0m², Vol: 40711.9m³

Step 1300/29999, Sim Time: 392.068s (+3.633e-01s), Max Depth: 1.2903554441m, Max Vel: 1.2616034093m/s, Area: 132475.0m², Vol: 40790.1m³

Step 1400/29999, Sim Time: 426.606s (+1.288e-01s), Max Depth: 1.3122874273m, Max Vel: 9.9999999997m/s, Area: 132975.0m², Vol: 40887.9m³

Step 1500/29999, Sim Time: 450.786s (+3.606e-01s), Max Depth: 1.3258851097m, Max Vel: 1.2460007728m/s, Area: 133025.0m², Vol: 40956.6m³

Step 1600/29999, Sim Time: 480.591s (+1.289e-01s), Max Depth: 1.3031090320m, Max Vel: 9.9999999991m/s, Area: 133250.0m², Vol: 41033.4m³

Step 1700/29999, Sim Time: 511.767s (+3.642e-01s), Max Depth: 1.2886718826m, Max Vel: 1.2508509502m/s, Area: 133225.0m², Vol: 41115.8m³

Step 1800/29999, Sim Time: 548.176s (+3.656e-01s), Max Depth: 1.2710553868m, Max Vel: 1.2539026847m/s, Area: 133325.0m², Vol: 41207.1m³

Step 1900/29999, Sim Time: 573.285s (+3.624e-01s), Max Depth: 1.2907540376m, Max Vel: 1.2710783427m/s, Area: 133450.0m², Vol: 41278.0m³

Step 2000/29999, Sim Time: 609.867s (+3.678e-01s), Max Depth: 1.2290691592m, Max Vel: 1.2865142583m/s, Area: 133775.0m², Vol: 41377.0m³

Step 2100/29999, Sim Time: 646.890s (+3.740e-01s), Max Depth: 1.1943424518m, Max Vel: 1.2549279764m/s, Area: 134025.0m², Vol: 41477.5m³

Step 2200/29999, Sim Time: 684.668s (+3.807e-01s), Max Depth: 1.1575980502m, Max Vel: 1.2257851072m/s, Area: 134175.0m², Vol: 41580.0m³

Step 2300/29999, Sim Time: 723.052s (+3.860e-01s), Max Depth: 1.1274360680m, Max Vel: 1.2073139738m/s, Area: 134400.0m², Vol: 41686.1m³

Step 2400/29999, Sim Time: 761.857s (+3.904e-01s), Max Depth: 1.1004748545m, Max Vel: 1.1967206744m/s, Area: 134475.0m², Vol: 41795.0m³

Step 2500/29999, Sim Time: 801.143s (+3.964e-01s), Max Depth: 1.0698710326m, Max Vel: 1.1745253575m/s, Area: 134650.0m², Vol: 41901.5m³

Step 2600/29999, Sim Time: 841.132s (+4.030e-01s), Max Depth: 1.0396113751m, Max Vel: 1.1479736449m/s, Area: 134850.0m², Vol: 42010.2m³

Step 2700/29999, Sim Time: 881.710s (+4.077e-01s), Max Depth: 1.0166714377m, Max Vel: 1.1343833975m/s, Area: 135050.0m², Vol: 42122.3m³

Step 2800/29999, Sim Time: 922.719s (+4.123e-01s), Max Depth: 0.9964321517m, Max Vel: 1.1174659849m/s, Area: 135225.0m², Vol: 42237.1m³

Step 2900/29999, Sim Time: 964.148s (+4.165e-01s), Max Depth: 0.9800551175m, Max Vel: 1.1002890196m/s, Area: 135400.0m², Vol: 42355.1m³

Step 3000/29999, Sim Time: 1005.941s (+4.196e-01s), Max Depth: 0.9679487844m, Max Vel: 1.0885341419m/s, Area: 135575.0m², Vol: 42475.8m³

Step 3100/29999, Sim Time: 1048.055s (+4.224e-01s), Max Depth: 0.9561073824m, Max Vel: 1.0803312596m/s, Area: 135750.0m², Vol: 42598.0m³

Step 3200/29999, Sim Time: 1090.473s (+4.254e-01s), Max Depth: 0.9445469566m, Max Vel: 1.0694172436m/s, Area: 135900.0m², Vol: 42721.9m³

Step 3300/29999, Sim Time: 1133.147s (+4.281e-01s), Max Depth: 0.9347013308m, Max Vel: 1.0599740338m/s, Area: 136025.0m², Vol: 42848.0m³

Step 3400/29999, Sim Time: 1176.055s (+4.305e-01s), Max Depth: 0.9261999924m, Max Vel: 1.0507925337m/s, Area: 136225.0m², Vol: 42975.9m³

Step 3500/29999, Sim Time: 1219.204s (+4.326e-01s), Max Depth: 0.9182635232m, Max Vel: 1.0435059045m/s, Area: 136425.0m², Vol: 43106.1m³

Step 3600/29999, Sim Time: 1262.592s (+4.348e-01s), Max Depth: 0.9098938460m, Max Vel: 1.0373220158m/s, Area: 136525.0m², Vol: 43237.8m³

Step 3700/29999, Sim Time: 1306.202s (+4.372e-01s), Max Depth: 0.9016682512m, Max Vel: 1.0287246543m/s, Area: 136650.0m², Vol: 43369.9m³

Step 3800/29999, Sim Time: 1350.016s (+4.393e-01s), Max Depth: 0.8948238520m, Max Vel: 1.0206040776m/s, Area: 136875.0m², Vol: 43502.5m³

Step 3900/29999, Sim Time: 1394.018s (+4.409e-01s), Max Depth: 0.8899798835m, Max Vel: 1.0139729768m/s, Area: 137050.0m², Vol: 43636.7m³

Step 4000/29999, Sim Time: 1438.190s (+4.422e-01s), Max Depth: 0.8851453342m, Max Vel: 1.0103316951m/s, Area: 137175.0m², Vol: 43772.8m³

Step 4100/29999, Sim Time: 1482.495s (+4.436e-01s), Max Depth: 0.8808663295m, Max Vel: 1.0051462318m/s, Area: 137525.0m², Vol: 43910.7m³

Step 4200/29999, Sim Time: 1526.906s (+4.447e-01s), Max Depth: 0.8776796451m, Max Vel: 1.0009151282m/s, Area: 137750.0m², Vol: 44051.4m³

Step 4300/29999, Sim Time: 1571.402s (+4.454e-01s), Max Depth: 0.8760166041m, Max Vel: 0.9978547832m/s, Area: 137950.0m², Vol: 44194.8m³

Step 4400/29999, Sim Time: 1615.966s (+4.458e-01s), Max Depth: 0.8745031827m, Max Vel: 0.9967785751m/s, Area: 138225.0m², Vol: 44340.8m³

Step 4500/29999, Sim Time: 1660.573s (+4.462e-01s), Max Depth: 0.8733183222m, Max Vel: 0.9948649145m/s, Area: 138275.0m², Vol: 44489.4m³

Step 4600/29999, Sim Time: 1705.205s (+4.465e-01s), Max Depth: 0.8725947532m, Max Vel: 0.9937556454m/s, Area: 138400.0m², Vol: 44638.6m³

Step 4700/29999, Sim Time: 1749.857s (+4.466e-01s), Max Depth: 0.8723752387m, Max Vel: 0.9930184258m/s, Area: 138500.0m², Vol: 44787.5m³

Step 4800/29999, Sim Time: 1794.523s (+4.467e-01s), Max Depth: 0.8720490226m, Max Vel: 0.9928783180m/s, Area: 138625.0m², Vol: 44935.9m³

Step 4900/29999, Sim Time: 1839.201s (+4.468e-01s), Max Depth: 0.8716790279m, Max Vel: 0.9923087483m/s, Area: 138725.0m², Vol: 45084.2m³

Step 5000/29999, Sim Time: 1883.889s (+4.470e-01s), Max Depth: 0.8712949157m, Max Vel: 0.9917473456m/s, Area: 138875.0m², Vol: 45232.8m³

Step 5100/29999, Sim Time: 1928.589s (+4.471e-01s), Max Depth: 0.8710012947m, Max Vel: 0.9911691970m/s, Area: 139050.0m², Vol: 45383.1m³

Step 5200/29999, Sim Time: 1973.303s (+4.472e-01s), Max Depth: 0.8705896509m, Max Vel: 0.9909038624m/s, Area: 139125.0m², Vol: 45535.6m³

Step 5300/29999, Sim Time: 2018.033s (+4.474e-01s), Max Depth: 0.8700861028m, Max Vel: 0.9902128216m/s, Area: 139400.0m², Vol: 45689.8m³

Step 5400/29999, Sim Time: 2062.778s (+4.476e-01s), Max Depth: 0.8695550287m, Max Vel: 0.9894398985m/s, Area: 139625.0m², Vol: 45846.5m³

Step 5500/29999, Sim Time: 2107.540s (+4.477e-01s), Max Depth: 0.8691359758m, Max Vel: 0.9886784178m/s, Area: 139800.0m², Vol: 46005.8m³

Step 5600/29999, Sim Time: 2152.322s (+4.479e-01s), Max Depth: 0.8685545690m, Max Vel: 0.9883212834m/s, Area: 140125.0m², Vol: 46168.0m³

Step 5700/29999, Sim Time: 2197.123s (+4.481e-01s), Max Depth: 0.8678629460m, Max Vel: 0.9874124631m/s, Area: 140225.0m², Vol: 46333.1m³

Step 5800/29999, Sim Time: 2241.943s (+4.483e-01s), Max Depth: 0.8672078180m, Max Vel: 0.9865179671m/s, Area: 140375.0m², Vol: 46500.5m³

Step 5900/29999, Sim Time: 2286.783s (+4.485e-01s), Max Depth: 0.8667865780m, Max Vel: 0.9857616370m/s, Area: 140600.0m², Vol: 46670.6m³

Step 6000/29999, Sim Time: 2331.647s (+4.487e-01s), Max Depth: 0.8661022153m, Max Vel: 0.9853607806m/s, Area: 140650.0m², Vol: 46843.8m³

Step 6100/29999, Sim Time: 2376.529s (+4.489e-01s), Max Depth: 0.8654420334m, Max Vel: 0.9843995004m/s, Area: 140800.0m², Vol: 47019.9m³

Step 6200/29999, Sim Time: 2421.428s (+4.491e-01s), Max Depth: 0.8649559651m, Max Vel: 0.9836761460m/s, Area: 140950.0m², Vol: 47198.7m³

Step 6300/29999, Sim Time: 2466.343s (+4.492e-01s), Max Depth: 0.8647077348m, Max Vel: 0.9832067842m/s, Area: 141225.0m², Vol: 47381.3m³

Step 6400/29999, Sim Time: 2511.272s (+4.493e-01s), Max Depth: 0.8643036007m, Max Vel: 0.9829639436m/s, Area: 141475.0m², Vol: 47567.6m³

Step 6500/29999, Sim Time: 2556.210s (+4.494e-01s), Max Depth: 0.8640259752m, Max Vel: 0.9824776641m/s, Area: 141625.0m², Vol: 47757.6m³

Step 6600/29999, Sim Time: 2601.153s (+4.495e-01s), Max Depth: 0.8639391355m, Max Vel: 0.9822349170m/s, Area: 141775.0m², Vol: 47950.2m³

Step 6700/29999, Sim Time: 2646.100s (+4.495e-01s), Max Depth: 0.8639963760m, Max Vel: 0.9822426901m/s, Area: 141900.0m², Vol: 48145.5m³

Step 6800/29999, Sim Time: 2691.046s (+4.495e-01s), Max Depth: 0.8640111720m, Max Vel: 0.9822979453m/s, Area: 142075.0m², Vol: 48342.9m³

Step 6900/29999, Sim Time: 2735.990s (+4.494e-01s), Max Depth: 0.8641132910m, Max Vel: 0.9823676823m/s, Area: 142250.0m², Vol: 48542.3m³

Step 7000/29999, Sim Time: 2780.929s (+4.494e-01s), Max Depth: 0.8642852813m, Max Vel: 0.9825440381m/s, Area: 142325.0m², Vol: 48744.6m³

Step 7100/29999, Sim Time: 2825.863s (+4.493e-01s), Max Depth: 0.8645164629m, Max Vel: 0.9827761507m/s, Area: 142550.0m², Vol: 48949.5m³

Step 7200/29999, Sim Time: 2870.789s (+4.492e-01s), Max Depth: 0.8647731928m, Max Vel: 0.9830528813m/s, Area: 142700.0m², Vol: 49157.3m³

Step 7300/29999, Sim Time: 2915.706s (+4.491e-01s), Max Depth: 0.8650536124m, Max Vel: 0.9833565172m/s, Area: 142850.0m², Vol: 49368.2m³

Step 7400/29999, Sim Time: 2960.613s (+4.490e-01s), Max Depth: 0.8653269578m, Max Vel: 0.9836988282m/s, Area: 143175.0m², Vol: 49581.8m³

Step 7500/29999, Sim Time: 3005.512s (+4.489e-01s), Max Depth: 0.8655959976m, Max Vel: 0.9840065561m/s, Area: 143450.0m², Vol: 49798.3m³

Step 7600/29999, Sim Time: 3050.402s (+4.489e-01s), Max Depth: 0.8658561783m, Max Vel: 0.9842982872m/s, Area: 143600.0m², Vol: 50017.6m³

Step 7700/29999, Sim Time: 3095.285s (+4.488e-01s), Max Depth: 0.8660934812m, Max Vel: 0.9845404277m/s, Area: 143775.0m², Vol: 50238.2m³

Step 7800/29999, Sim Time: 3140.160s (+4.487e-01s), Max Depth: 0.8662823503m, Max Vel: 0.9847616417m/s, Area: 144025.0m², Vol: 50458.4m³

Step 7900/29999, Sim Time: 3185.030s (+4.487e-01s), Max Depth: 0.8664481625m, Max Vel: 0.9849398166m/s, Area: 144175.0m², Vol: 50678.2m³

Step 8000/29999, Sim Time: 3229.895s (+4.486e-01s), Max Depth: 0.8665590854m, Max Vel: 0.9850684775m/s, Area: 144400.0m², Vol: 50897.5m³

Step 8100/29999, Sim Time: 3274.757s (+4.486e-01s), Max Depth: 0.8666128208m, Max Vel: 0.9851522058m/s, Area: 144475.0m², Vol: 51116.5m³

Step 8200/29999, Sim Time: 3319.618s (+4.486e-01s), Max Depth: 0.8666066434m, Max Vel: 0.9851431866m/s, Area: 144650.0m², Vol: 51334.3m³

Step 8300/29999, Sim Time: 3364.480s (+4.486e-01s), Max Depth: 0.8665847983m, Max Vel: 0.9850717135m/s, Area: 144825.0m², Vol: 51550.9m³

Step 8400/29999, Sim Time: 3409.344s (+4.486e-01s), Max Depth: 0.8665108725m, Max Vel: 0.9850614670m/s, Area: 145100.0m², Vol: 51766.6m³

Step 8500/29999, Sim Time: 3454.211s (+4.487e-01s), Max Depth: 0.8663810292m, Max Vel: 0.9848935495m/s, Area: 145250.0m², Vol: 51981.6m³

Step 8600/29999, Sim Time: 3499.082s (+4.487e-01s), Max Depth: 0.8662443389m, Max Vel: 0.9847065231m/s, Area: 145425.0m², Vol: 52195.5m³

Step 8700/29999, Sim Time: 3543.957s (+4.488e-01s), Max Depth: 0.8661751972m, Max Vel: 0.9845277785m/s, Area: 145650.0m², Vol: 52407.6m³

Step 8800/29999, Sim Time: 3588.837s (+4.488e-01s), Max Depth: 0.8660015542m, Max Vel: 0.9844627528m/s, Area: 145775.0m², Vol: 52618.9m³

Step 8900/29999, Sim Time: 3633.722s (+4.489e-01s), Max Depth: 0.8658192090m, Max Vel: 0.9841805332m/s, Area: 145925.0m², Vol: 52828.3m³

Step 9000/29999, Sim Time: 3678.611s (+4.489e-01s), Max Depth: 0.8656767879m, Max Vel: 0.9839345455m/s, Area: 146125.0m², Vol: 53035.8m³

Step 9100/29999, Sim Time: 3723.506s (+4.490e-01s), Max Depth: 0.8656017698m, Max Vel: 0.9837880141m/s, Area: 146325.0m², Vol: 53241.1m³

Step 9200/29999, Sim Time: 3768.407s (+4.490e-01s), Max Depth: 0.8654144863m, Max Vel: 0.9836554314m/s, Area: 146450.0m², Vol: 53443.4m³

Step 9300/29999, Sim Time: 3813.312s (+4.491e-01s), Max Depth: 0.8652519146m, Max Vel: 0.9833722742m/s, Area: 146600.0m², Vol: 53643.4m³

Step 9400/29999, Sim Time: 3858.221s (+4.491e-01s), Max Depth: 0.8651651872m, Max Vel: 0.9831438276m/s, Area: 146725.0m², Vol: 53841.4m³

Step 9500/29999, Sim Time: 3903.135s (+4.492e-01s), Max Depth: 0.8651037107m, Max Vel: 0.9830666401m/s, Area: 146875.0m², Vol: 54037.5m³

Step 9600/29999, Sim Time: 3948.053s (+4.492e-01s), Max Depth: 0.8649611540m, Max Vel: 0.9829253405m/s, Area: 147075.0m², Vol: 54230.8m³

Step 9700/29999, Sim Time: 3992.975s (+4.493e-01s), Max Depth: 0.8648348183m, Max Vel: 0.9826071056m/s, Area: 147275.0m², Vol: 54422.2m³

Step 9800/29999, Sim Time: 4037.899s (+4.493e-01s), Max Depth: 0.8647956402m, Max Vel: 0.9826619453m/s, Area: 147375.0m², Vol: 54611.6m³

Step 9900/29999, Sim Time: 4082.826s (+4.493e-01s), Max Depth: 0.8647461700m, Max Vel: 0.9825550719m/s, Area: 147600.0m², Vol: 54798.5m³

Step 10000/29999, Sim Time: 4127.756s (+4.493e-01s), Max Depth: 0.8646068383m, Max Vel: 0.9824605781m/s, Area: 147725.0m², Vol: 54983.0m³

Step 10100/29999, Sim Time: 4172.690s (+4.494e-01s), Max Depth: 0.8644954596m, Max Vel: 0.9822625222m/s, Area: 147800.0m², Vol: 55165.4m³

Step 10200/29999, Sim Time: 4217.626s (+4.494e-01s), Max Depth: 0.8644654031m, Max Vel: 0.9820961353m/s, Area: 147825.0m², Vol: 55345.0m³

Step 10300/29999, Sim Time: 4262.565s (+4.494e-01s), Max Depth: 0.8644277332m, Max Vel: 0.9820798917m/s, Area: 148000.0m², Vol: 55521.0m³

Step 10400/29999, Sim Time: 4307.506s (+4.494e-01s), Max Depth: 0.8643578369m, Max Vel: 0.9819827251m/s, Area: 148150.0m², Vol: 55692.8m³

Step 10500/29999, Sim Time: 4352.448s (+4.494e-01s), Max Depth: 0.8643038738m, Max Vel: 0.9818985900m/s, Area: 148225.0m², Vol: 55860.9m³

Step 10600/29999, Sim Time: 4397.392s (+4.495e-01s), Max Depth: 0.8643082080m, Max Vel: 0.9818054753m/s, Area: 148275.0m², Vol: 56024.7m³

Step 10700/29999, Sim Time: 4442.338s (+4.495e-01s), Max Depth: 0.8642663903m, Max Vel: 0.9818181987m/s, Area: 148325.0m², Vol: 56184.7m³

Step 10800/29999, Sim Time: 4487.284s (+4.495e-01s), Max Depth: 0.8642104033m, Max Vel: 0.9817316841m/s, Area: 148375.0m², Vol: 56341.0m³

Step 10900/29999, Sim Time: 4532.232s (+4.495e-01s), Max Depth: 0.8641699677m, Max Vel: 0.9816382640m/s, Area: 148450.0m², Vol: 56493.8m³

Step 11000/29999, Sim Time: 4577.181s (+4.495e-01s), Max Depth: 0.8641873072m, Max Vel: 0.9815839730m/s, Area: 148575.0m², Vol: 56644.0m³

Step 11100/29999, Sim Time: 4622.132s (+4.495e-01s), Max Depth: 0.8641377106m, Max Vel: 0.9815921311m/s, Area: 148650.0m², Vol: 56792.1m³

Step 11200/29999, Sim Time: 4667.084s (+4.495e-01s), Max Depth: 0.8640924899m, Max Vel: 0.9814825753m/s, Area: 148800.0m², Vol: 56938.1m³

Step 11300/29999, Sim Time: 4712.036s (+4.495e-01s), Max Depth: 0.8640734015m, Max Vel: 0.9814222014m/s, Area: 148825.0m², Vol: 57081.7m³

Step 11400/29999, Sim Time: 4756.990s (+4.495e-01s), Max Depth: 0.8640850451m, Max Vel: 0.9813907956m/s, Area: 148975.0m², Vol: 57223.1m³

Step 11500/29999, Sim Time: 4801.945s (+4.496e-01s), Max Depth: 0.8640409207m, Max Vel: 0.9813836455m/s, Area: 149125.0m², Vol: 57362.6m³

Step 11600/29999, Sim Time: 4846.901s (+4.496e-01s), Max Depth: 0.8640053584m, Max Vel: 0.9813013855m/s, Area: 149225.0m², Vol: 57500.3m³

Step 11700/29999, Sim Time: 4891.857s (+4.496e-01s), Max Depth: 0.8640069020m, Max Vel: 0.9812222879m/s, Area: 149325.0m², Vol: 57636.0m³

Step 11800/29999, Sim Time: 4936.814s (+4.496e-01s), Max Depth: 0.8640177956m, Max Vel: 0.9812470398m/s, Area: 149375.0m², Vol: 57769.5m³

Step 11900/29999, Sim Time: 4981.772s (+4.496e-01s), Max Depth: 0.8639789127m, Max Vel: 0.9812130985m/s, Area: 149375.0m², Vol: 57900.6m³

Step 12000/29999, Sim Time: 5026.730s (+4.496e-01s), Max Depth: 0.8639534588m, Max Vel: 0.9811437983m/s, Area: 149475.0m², Vol: 58028.9m³

Step 12100/29999, Sim Time: 5071.689s (+4.496e-01s), Max Depth: 0.8639798388m, Max Vel: 0.9810834188m/s, Area: 149500.0m², Vol: 58154.4m³

Step 12200/29999, Sim Time: 5116.649s (+4.496e-01s), Max Depth: 0.8639679137m, Max Vel: 0.9811321322m/s, Area: 149550.0m², Vol: 58277.4m³

Step 12300/29999, Sim Time: 5161.609s (+4.496e-01s), Max Depth: 0.8639341723m, Max Vel: 0.9810621734m/s, Area: 149750.0m², Vol: 58397.8m³

Step 12400/29999, Sim Time: 5206.570s (+4.496e-01s), Max Depth: 0.8639151641m, Max Vel: 0.9810019980m/s, Area: 149775.0m², Vol: 58516.0m³

Step 12500/29999, Sim Time: 5251.531s (+4.496e-01s), Max Depth: 0.8639471260m, Max Vel: 0.9809736970m/s, Area: 149875.0m², Vol: 58632.5m³

Step 12600/29999, Sim Time: 5296.493s (+4.496e-01s), Max Depth: 0.8639146567m, Max Vel: 0.9810025720m/s, Area: 149975.0m², Vol: 58747.0m³

Step 12700/29999, Sim Time: 5341.455s (+4.496e-01s), Max Depth: 0.8638833388m, Max Vel: 0.9809233775m/s, Area: 150025.0m², Vol: 58859.7m³

Step 12800/29999, Sim Time: 5386.418s (+4.496e-01s), Max Depth: 0.8638795857m, Max Vel: 0.9808524986m/s, Area: 150050.0m², Vol: 58970.5m³

Step 12900/29999, Sim Time: 5431.382s (+4.496e-01s), Max Depth: 0.8638911970m, Max Vel: 0.9808651650m/s, Area: 150075.0m², Vol: 59079.1m³

Step 13000/29999, Sim Time: 5476.347s (+4.497e-01s), Max Depth: 0.8638445616m, Max Vel: 0.9808323319m/s, Area: 150125.0m², Vol: 59185.7m³

Step 13100/29999, Sim Time: 5521.313s (+4.497e-01s), Max Depth: 0.8638065197m, Max Vel: 0.9807687260m/s, Area: 150125.0m², Vol: 59290.1m³

Step 13200/29999, Sim Time: 5566.279s (+4.497e-01s), Max Depth: 0.8638179218m, Max Vel: 0.9806731101m/s, Area: 150200.0m², Vol: 59392.6m³

Step 13300/29999, Sim Time: 5611.247s (+4.497e-01s), Max Depth: 0.8637904477m, Max Vel: 0.9807140755m/s, Area: 150225.0m², Vol: 59493.3m³

Step 13400/29999, Sim Time: 5656.215s (+4.497e-01s), Max Depth: 0.8637418419m, Max Vel: 0.9806190955m/s, Area: 150250.0m², Vol: 59592.5m³

Step 13500/29999, Sim Time: 5701.185s (+4.497e-01s), Max Depth: 0.8637089151m, Max Vel: 0.9805489272m/s, Area: 150300.0m², Vol: 59690.6m³

Step 13600/29999, Sim Time: 5746.156s (+4.497e-01s), Max Depth: 0.8637187034m, Max Vel: 0.9805195034m/s, Area: 150375.0m², Vol: 59787.6m³

Step 13700/29999, Sim Time: 5791.128s (+4.497e-01s), Max Depth: 0.8636691580m, Max Vel: 0.9805186996m/s, Area: 150350.0m², Vol: 59883.6m³

Step 13800/29999, Sim Time: 5836.101s (+4.497e-01s), Max Depth: 0.8636165638m, Max Vel: 0.9804197476m/s, Area: 150375.0m², Vol: 59978.9m³

Step 13900/29999, Sim Time: 5881.075s (+4.498e-01s), Max Depth: 0.8635863805m, Max Vel: 0.9803498598m/s, Area: 150425.0m², Vol: 60073.4m³

Step 14000/29999, Sim Time: 5926.051s (+4.498e-01s), Max Depth: 0.8635774858m, Max Vel: 0.9803229601m/s, Area: 150425.0m², Vol: 60167.2m³

Step 14100/29999, Sim Time: 5971.028s (+4.498e-01s), Max Depth: 0.8635117991m, Max Vel: 0.9802953408m/s, Area: 150725.0m², Vol: 60260.5m³

Step 14200/29999, Sim Time: 6016.007s (+4.498e-01s), Max Depth: 0.8634525399m, Max Vel: 0.9801983819m/s, Area: 151675.0m², Vol: 60352.6m³

Step 14300/29999, Sim Time: 6060.987s (+4.498e-01s), Max Depth: 0.8634336901m, Max Vel: 0.9801079958m/s, Area: 155450.0m², Vol: 60441.0m³

Step 14400/29999, Sim Time: 6105.969s (+4.498e-01s), Max Depth: 0.8634203343m, Max Vel: 0.9801119850m/s, Area: 172175.0m², Vol: 60519.3m³

Step 14500/29999, Sim Time: 6150.952s (+4.498e-01s), Max Depth: 0.8633476280m, Max Vel: 0.9800595948m/s, Area: 205025.0m², Vol: 60572.7m³

Step 14600/29999, Sim Time: 6195.936s (+4.499e-01s), Max Depth: 0.8632894986m, Max Vel: 0.9800387284m/s, Area: 253025.0m², Vol: 60589.0m³

Step 14700/29999, Sim Time: 6240.915s (+4.447e-01s), Max Depth: 0.8633065578m, Max Vel: 1.1429730896m/s, Area: 306175.0m², Vol: 60578.9m³

Step 14800/29999, Sim Time: 6264.278s (+1.355e-01s), Max Depth: 0.8639472034m, Max Vel: 9.9999999990m/s, Area: 329625.0m², Vol: 60571.2m³

Step 14900/29999, Sim Time: 6277.833s (+1.355e-01s), Max Depth: 0.8635656931m, Max Vel: 9.9999999990m/s, Area: 339725.0m², Vol: 60566.4m³

Step 15000/29999, Sim Time: 6291.388s (+1.355e-01s), Max Depth: 0.8635884626m, Max Vel: 9.9999999992m/s, Area: 350925.0m², Vol: 60564.0m³

Step 15100/29999, Sim Time: 6304.942s (+1.356e-01s), Max Depth: 0.8633798350m, Max Vel: 9.9999999990m/s, Area: 355375.0m², Vol: 60558.6m³

Step 15200/29999, Sim Time: 6318.498s (+1.356e-01s), Max Depth: 0.8629454810m, Max Vel: 9.9999999990m/s, Area: 359600.0m², Vol: 60554.3m³

Step 15300/29999, Sim Time: 6332.054s (+1.356e-01s), Max Depth: 0.8624623991m, Max Vel: 9.9999999990m/s, Area: 363450.0m², Vol: 60552.4m³

Step 15400/29999, Sim Time: 6345.611s (+1.356e-01s), Max Depth: 0.8624449887m, Max Vel: 9.9999999990m/s, Area: 367000.0m², Vol: 60551.3m³

Step 15500/29999, Sim Time: 6359.167s (+1.356e-01s), Max Depth: 0.8626523898m, Max Vel: 9.9999999990m/s, Area: 369050.0m², Vol: 60552.2m³

Step 15600/29999, Sim Time: 6372.724s (+1.356e-01s), Max Depth: 0.8626068926m, Max Vel: 9.9999999990m/s, Area: 372100.0m², Vol: 60554.5m³

Step 15700/29999, Sim Time: 6386.280s (+1.356e-01s), Max Depth: 0.8625825844m, Max Vel: 9.9999999990m/s, Area: 374675.0m², Vol: 60558.6m³

Step 15800/29999, Sim Time: 6399.837s (+1.356e-01s), Max Depth: 0.8623623761m, Max Vel: 9.9999999990m/s, Area: 375025.0m², Vol: 60564.9m³

Step 15900/29999, Sim Time: 6413.394s (+1.356e-01s), Max Depth: 0.8621522554m, Max Vel: 9.9999999990m/s, Area: 376325.0m², Vol: 60574.2m³

Step 16000/29999, Sim Time: 6426.951s (+1.356e-01s), Max Depth: 0.8621433335m, Max Vel: 9.9999999998m/s, Area: 377700.0m², Vol: 60586.6m³

Step 16100/29999, Sim Time: 6440.508s (+1.356e-01s), Max Depth: 0.8622422686m, Max Vel: 9.9999999990m/s, Area: 379100.0m², Vol: 60603.9m³

Step 16200/29999, Sim Time: 6454.066s (+1.356e-01s), Max Depth: 0.8621027613m, Max Vel: 9.9999999990m/s, Area: 380925.0m², Vol: 60623.8m³

Step 16300/29999, Sim Time: 6467.623s (+1.356e-01s), Max Depth: 0.8618451317m, Max Vel: 9.9999999990m/s, Area: 380350.0m², Vol: 60649.3m³

Step 16400/29999, Sim Time: 6481.181s (+1.356e-01s), Max Depth: 0.8618852650m, Max Vel: 9.9999999990m/s, Area: 381425.0m², Vol: 60678.4m³

Step 16500/29999, Sim Time: 6494.739s (+1.356e-01s), Max Depth: 0.8618111108m, Max Vel: 9.9999999990m/s, Area: 383000.0m², Vol: 60713.0m³

Step 16600/29999, Sim Time: 6508.297s (+1.356e-01s), Max Depth: 0.8618539252m, Max Vel: 9.9999999990m/s, Area: 383775.0m², Vol: 60749.9m³

Step 16700/29999, Sim Time: 6521.854s (+1.356e-01s), Max Depth: 0.8616537661m, Max Vel: 9.9999999990m/s, Area: 385350.0m², Vol: 60791.6m³

Step 16800/29999, Sim Time: 6535.413s (+1.356e-01s), Max Depth: 0.8614279659m, Max Vel: 9.9999999990m/s, Area: 386525.0m², Vol: 60839.9m³

Step 16900/29999, Sim Time: 6548.971s (+1.356e-01s), Max Depth: 0.8614423547m, Max Vel: 9.9999999990m/s, Area: 387650.0m², Vol: 60894.1m³

Step 17000/29999, Sim Time: 6562.530s (+1.356e-01s), Max Depth: 0.8614356553m, Max Vel: 9.9999999990m/s, Area: 388125.0m², Vol: 60952.0m³

Step 17100/29999, Sim Time: 6576.089s (+1.356e-01s), Max Depth: 0.8612351217m, Max Vel: 9.9999999990m/s, Area: 388300.0m², Vol: 61011.4m³

Step 17200/29999, Sim Time: 6589.648s (+1.356e-01s), Max Depth: 0.8610833413m, Max Vel: 9.9999999990m/s, Area: 389300.0m², Vol: 61069.7m³

Step 17300/29999, Sim Time: 6603.207s (+1.356e-01s), Max Depth: 0.8609804409m, Max Vel: 9.9999999990m/s, Area: 387450.0m², Vol: 61126.1m³

Step 17400/29999, Sim Time: 6616.766s (+1.356e-01s), Max Depth: 0.8609239020m, Max Vel: 9.9999999990m/s, Area: 389675.0m², Vol: 61182.4m³

Step 17500/29999, Sim Time: 6630.326s (+1.356e-01s), Max Depth: 0.8609582065m, Max Vel: 9.9999999990m/s, Area: 388775.0m², Vol: 61236.9m³

Step 17600/29999, Sim Time: 6643.885s (+1.356e-01s), Max Depth: 0.8606652325m, Max Vel: 9.9999999990m/s, Area: 388775.0m², Vol: 61290.1m³

Step 17700/29999, Sim Time: 6657.445s (+1.356e-01s), Max Depth: 0.8605546364m, Max Vel: 9.9999999990m/s, Area: 392350.0m², Vol: 61342.7m³

Step 17800/29999, Sim Time: 6671.005s (+1.356e-01s), Max Depth: 0.8605156485m, Max Vel: 9.9999999990m/s, Area: 391675.0m², Vol: 61394.6m³

Step 17900/29999, Sim Time: 6684.566s (+1.356e-01s), Max Depth: 0.8604150150m, Max Vel: 9.9999999990m/s, Area: 391675.0m², Vol: 61446.8m³

Step 18000/29999, Sim Time: 6698.126s (+1.356e-01s), Max Depth: 0.8603977595m, Max Vel: 9.9999999991m/s, Area: 393075.0m², Vol: 61500.1m³

Step 18100/29999, Sim Time: 6711.687s (+1.356e-01s), Max Depth: 0.8601422971m, Max Vel: 9.9999999990m/s, Area: 394150.0m², Vol: 61550.8m³

Step 18200/29999, Sim Time: 6725.247s (+1.356e-01s), Max Depth: 0.8600257849m, Max Vel: 9.9999999990m/s, Area: 394725.0m², Vol: 61599.8m³

Step 18300/29999, Sim Time: 6738.808s (+1.356e-01s), Max Depth: 0.8600669351m, Max Vel: 9.9999999990m/s, Area: 395825.0m², Vol: 61648.4m³

Step 18400/29999, Sim Time: 6752.370s (+1.356e-01s), Max Depth: 0.8599669446m, Max Vel: 9.9999999990m/s, Area: 397250.0m², Vol: 61695.1m³

Step 18500/29999, Sim Time: 6765.931s (+1.356e-01s), Max Depth: 0.8597643949m, Max Vel: 9.9999999990m/s, Area: 396825.0m², Vol: 61740.8m³

Step 18600/29999, Sim Time: 6779.492s (+1.356e-01s), Max Depth: 0.8596650035m, Max Vel: 9.9999999990m/s, Area: 397075.0m², Vol: 61786.8m³

Step 18700/29999, Sim Time: 6793.054s (+1.356e-01s), Max Depth: 0.8595188910m, Max Vel: 9.9999999990m/s, Area: 398050.0m², Vol: 61831.7m³

Step 18800/29999, Sim Time: 6806.616s (+1.356e-01s), Max Depth: 0.8595419082m, Max Vel: 9.9999999990m/s, Area: 399325.0m², Vol: 61877.1m³

Step 18900/29999, Sim Time: 6820.178s (+1.356e-01s), Max Depth: 0.8595011339m, Max Vel: 9.9999999990m/s, Area: 398575.0m², Vol: 61922.4m³

Step 19000/29999, Sim Time: 6833.740s (+1.356e-01s), Max Depth: 0.8591735097m, Max Vel: 9.9999999990m/s, Area: 399725.0m², Vol: 61969.1m³

Step 19100/29999, Sim Time: 6847.303s (+1.356e-01s), Max Depth: 0.8591519110m, Max Vel: 9.9999999990m/s, Area: 400000.0m², Vol: 62015.7m³

Step 19200/29999, Sim Time: 6860.865s (+1.356e-01s), Max Depth: 0.8591693690m, Max Vel: 9.9999999990m/s, Area: 400150.0m², Vol: 62062.3m³

Step 19300/29999, Sim Time: 6874.428s (+1.356e-01s), Max Depth: 0.8590747448m, Max Vel: 9.9999999990m/s, Area: 398825.0m², Vol: 62108.9m³

Step 19400/29999, Sim Time: 6887.991s (+1.356e-01s), Max Depth: 0.8589573817m, Max Vel: 9.9999999999m/s, Area: 400100.0m², Vol: 62155.2m³

Step 19500/29999, Sim Time: 6901.554s (+1.356e-01s), Max Depth: 0.8588533688m, Max Vel: 9.9999999990m/s, Area: 401975.0m², Vol: 62202.6m³

Step 19600/29999, Sim Time: 6915.117s (+1.356e-01s), Max Depth: 0.8587348098m, Max Vel: 9.9999999990m/s, Area: 401700.0m², Vol: 62247.0m³

Step 19700/29999, Sim Time: 6928.680s (+1.356e-01s), Max Depth: 0.8587560924m, Max Vel: 9.9999999990m/s, Area: 404025.0m², Vol: 62290.8m³

Step 19800/29999, Sim Time: 6942.244s (+1.356e-01s), Max Depth: 0.8588108551m, Max Vel: 9.9999999990m/s, Area: 405750.0m², Vol: 62334.4m³

Step 19900/29999, Sim Time: 6955.807s (+1.356e-01s), Max Depth: 0.8585770499m, Max Vel: 9.9999999990m/s, Area: 406375.0m², Vol: 62377.9m³

Step 20000/29999, Sim Time: 6969.371s (+1.356e-01s), Max Depth: 0.8585537835m, Max Vel: 9.9999999990m/s, Area: 406750.0m², Vol: 62423.7m³

Step 20100/29999, Sim Time: 6982.934s (+1.356e-01s), Max Depth: 0.8585897016m, Max Vel: 9.9999999990m/s, Area: 409025.0m², Vol: 62467.8m³

Step 20200/29999, Sim Time: 6996.498s (+1.356e-01s), Max Depth: 0.8584982698m, Max Vel: 9.9999999990m/s, Area: 411300.0m², Vol: 62510.2m³

Step 20300/29999, Sim Time: 7010.062s (+1.356e-01s), Max Depth: 0.8585005337m, Max Vel: 9.9999999990m/s, Area: 408875.0m², Vol: 62552.5m³

Step 20400/29999, Sim Time: 7023.625s (+1.356e-01s), Max Depth: 0.8584189917m, Max Vel: 9.9999999990m/s, Area: 409675.0m², Vol: 62594.7m³

Step 20500/29999, Sim Time: 7037.189s (+1.356e-01s), Max Depth: 0.8583202070m, Max Vel: 9.9999999990m/s, Area: 410400.0m², Vol: 62636.9m³

Step 20600/29999, Sim Time: 7050.753s (+1.356e-01s), Max Depth: 0.8583842208m, Max Vel: 9.9999999990m/s, Area: 411900.0m², Vol: 62677.7m³

Step 20700/29999, Sim Time: 7064.317s (+1.356e-01s), Max Depth: 0.8583503053m, Max Vel: 9.9999999990m/s, Area: 410725.0m², Vol: 62716.6m³

Step 20800/29999, Sim Time: 7077.882s (+1.356e-01s), Max Depth: 0.8583509866m, Max Vel: 9.9999999990m/s, Area: 412475.0m², Vol: 62755.2m³

Step 20900/29999, Sim Time: 7091.445s (+1.356e-01s), Max Depth: 0.8588387790m, Max Vel: 9.9999999990m/s, Area: 413175.0m², Vol: 62794.2m³

Step 21000/29999, Sim Time: 7105.008s (+1.356e-01s), Max Depth: 0.8593784526m, Max Vel: 9.9999999990m/s, Area: 413975.0m², Vol: 62833.7m³

Step 21100/29999, Sim Time: 7118.570s (+1.356e-01s), Max Depth: 0.8598103279m, Max Vel: 9.9999999990m/s, Area: 414375.0m², Vol: 62872.1m³

Step 21200/29999, Sim Time: 7132.131s (+1.356e-01s), Max Depth: 0.8602149242m, Max Vel: 9.9999999990m/s, Area: 415000.0m², Vol: 62910.7m³

Step 21300/29999, Sim Time: 7145.691s (+1.356e-01s), Max Depth: 0.8605814342m, Max Vel: 9.9999999990m/s, Area: 415925.0m², Vol: 62949.4m³

Step 21400/29999, Sim Time: 7159.251s (+1.356e-01s), Max Depth: 0.8609154670m, Max Vel: 9.9999999990m/s, Area: 416400.0m², Vol: 62988.5m³

Step 21500/29999, Sim Time: 7172.810s (+1.356e-01s), Max Depth: 0.8612696090m, Max Vel: 9.9999999990m/s, Area: 418350.0m², Vol: 63026.5m³

Step 21600/29999, Sim Time: 7186.368s (+1.356e-01s), Max Depth: 0.8616722948m, Max Vel: 9.9999999990m/s, Area: 417650.0m², Vol: 63064.2m³

Step 21700/29999, Sim Time: 7199.926s (+1.356e-01s), Max Depth: 0.8620608228m, Max Vel: 9.9999999990m/s, Area: 418575.0m², Vol: 63104.1m³

Step 21800/29999, Sim Time: 7213.483s (+1.356e-01s), Max Depth: 0.8624599763m, Max Vel: 9.9999999990m/s, Area: 418950.0m², Vol: 63145.0m³

Step 21900/29999, Sim Time: 7227.040s (+1.356e-01s), Max Depth: 0.8628205881m, Max Vel: 9.9999999990m/s, Area: 418750.0m², Vol: 63185.4m³

Step 22000/29999, Sim Time: 7240.595s (+1.356e-01s), Max Depth: 0.8632317231m, Max Vel: 9.9999999990m/s, Area: 419950.0m², Vol: 63226.7m³

Step 22100/29999, Sim Time: 7254.150s (+1.355e-01s), Max Depth: 0.8636564413m, Max Vel: 9.9999999992m/s, Area: 420250.0m², Vol: 63269.9m³

Step 22200/29999, Sim Time: 7267.704s (+1.355e-01s), Max Depth: 0.8641310577m, Max Vel: 9.9999999990m/s, Area: 421975.0m², Vol: 63311.0m³

Step 22300/29999, Sim Time: 7281.258s (+1.355e-01s), Max Depth: 0.8646432425m, Max Vel: 9.9999999998m/s, Area: 421600.0m², Vol: 63352.9m³

Step 22400/29999, Sim Time: 7294.810s (+1.355e-01s), Max Depth: 0.8651726834m, Max Vel: 9.9999999990m/s, Area: 422775.0m², Vol: 63395.1m³

Step 22500/29999, Sim Time: 7308.362s (+1.355e-01s), Max Depth: 0.8657906636m, Max Vel: 9.9999999990m/s, Area: 422750.0m², Vol: 63437.0m³

Step 22600/29999, Sim Time: 7321.912s (+1.355e-01s), Max Depth: 0.8664146918m, Max Vel: 9.9999999990m/s, Area: 424725.0m², Vol: 63479.6m³

Step 22700/29999, Sim Time: 7335.461s (+1.355e-01s), Max Depth: 0.8670971557m, Max Vel: 9.9999999990m/s, Area: 424700.0m², Vol: 63523.7m³

Step 22800/29999, Sim Time: 7349.009s (+1.355e-01s), Max Depth: 0.8678717745m, Max Vel: 9.9999999990m/s, Area: 425575.0m², Vol: 63570.2m³

Step 22900/29999, Sim Time: 7362.555s (+1.355e-01s), Max Depth: 0.8687237061m, Max Vel: 9.9999999990m/s, Area: 427025.0m², Vol: 63618.1m³

Step 23000/29999, Sim Time: 7376.100s (+1.354e-01s), Max Depth: 0.8696887065m, Max Vel: 9.9999999990m/s, Area: 427500.0m², Vol: 63666.8m³

Step 23100/29999, Sim Time: 7389.643s (+1.354e-01s), Max Depth: 0.8709665475m, Max Vel: 9.9999999990m/s, Area: 427450.0m², Vol: 63717.4m³

Step 23200/29999, Sim Time: 7403.183s (+1.354e-01s), Max Depth: 0.8724627802m, Max Vel: 9.9999999990m/s, Area: 429500.0m², Vol: 63775.3m³

Step 23300/29999, Sim Time: 7416.721s (+1.354e-01s), Max Depth: 0.8741692673m, Max Vel: 9.9999999990m/s, Area: 429850.0m², Vol: 63837.2m³

Step 23400/29999, Sim Time: 7430.256s (+1.353e-01s), Max Depth: 0.8753565762m, Max Vel: 9.9999999990m/s, Area: 430625.0m², Vol: 63899.2m³

Step 23500/29999, Sim Time: 7443.789s (+1.353e-01s), Max Depth: 0.8764874254m, Max Vel: 9.9999999990m/s, Area: 431625.0m², Vol: 63961.9m³

Step 23600/29999, Sim Time: 7457.320s (+1.353e-01s), Max Depth: 0.8775036228m, Max Vel: 9.9999999990m/s, Area: 432200.0m², Vol: 64026.2m³

Step 23700/29999, Sim Time: 7470.849s (+1.353e-01s), Max Depth: 0.8786681690m, Max Vel: 9.9999999997m/s, Area: 432000.0m², Vol: 64091.7m³

Step 23800/29999, Sim Time: 7484.377s (+1.353e-01s), Max Depth: 0.8796634026m, Max Vel: 9.9999999990m/s, Area: 432750.0m², Vol: 64158.9m³

Step 23900/29999, Sim Time: 7497.902s (+1.353e-01s), Max Depth: 0.8804730360m, Max Vel: 9.9999999990m/s, Area: 434325.0m², Vol: 64226.4m³

Step 24000/29999, Sim Time: 7511.427s (+1.352e-01s), Max Depth: 0.8812924974m, Max Vel: 9.9999999990m/s, Area: 435550.0m², Vol: 64294.5m³

Step 24100/29999, Sim Time: 7524.950s (+1.352e-01s), Max Depth: 0.8818345796m, Max Vel: 9.9999999990m/s, Area: 435425.0m², Vol: 64361.5m³

Step 24200/29999, Sim Time: 7538.472s (+1.352e-01s), Max Depth: 0.8825681321m, Max Vel: 9.9999999990m/s, Area: 435075.0m², Vol: 64425.9m³

Step 24300/29999, Sim Time: 7551.992s (+1.352e-01s), Max Depth: 0.8837313783m, Max Vel: 9.9999999990m/s, Area: 436625.0m², Vol: 64491.3m³

Step 24400/29999, Sim Time: 7565.511s (+1.352e-01s), Max Depth: 0.8849103883m, Max Vel: 9.9999999990m/s, Area: 436600.0m², Vol: 64556.9m³

Step 24500/29999, Sim Time: 7579.027s (+1.351e-01s), Max Depth: 0.8863143977m, Max Vel: 9.9999999990m/s, Area: 437700.0m², Vol: 64622.6m³

Step 24600/29999, Sim Time: 7592.541s (+1.351e-01s), Max Depth: 0.8880485775m, Max Vel: 9.9999999990m/s, Area: 438175.0m², Vol: 64686.8m³

Step 24700/29999, Sim Time: 7606.050s (+1.351e-01s), Max Depth: 0.8907977335m, Max Vel: 9.9999999990m/s, Area: 438125.0m², Vol: 64751.8m³

Step 24800/29999, Sim Time: 7619.555s (+1.350e-01s), Max Depth: 0.8938040586m, Max Vel: 9.9999999990m/s, Area: 437750.0m², Vol: 64819.9m³

Step 24900/29999, Sim Time: 7633.054s (+1.350e-01s), Max Depth: 0.8975318596m, Max Vel: 9.9999999990m/s, Area: 439450.0m², Vol: 64891.9m³

Step 25000/29999, Sim Time: 7646.546s (+1.349e-01s), Max Depth: 0.9016272640m, Max Vel: 9.9999999990m/s, Area: 439600.0m², Vol: 64967.8m³

Step 25100/29999, Sim Time: 7660.030s (+1.348e-01s), Max Depth: 0.9058762151m, Max Vel: 9.9999999990m/s, Area: 440200.0m², Vol: 65048.7m³

Step 25200/29999, Sim Time: 7673.508s (+1.347e-01s), Max Depth: 0.9107684820m, Max Vel: 9.9999999990m/s, Area: 441075.0m², Vol: 65133.7m³

Step 25300/29999, Sim Time: 7686.976s (+1.346e-01s), Max Depth: 0.9164289920m, Max Vel: 9.9999999990m/s, Area: 443000.0m², Vol: 65223.8m³

Step 25400/29999, Sim Time: 7700.434s (+1.345e-01s), Max Depth: 0.9223477562m, Max Vel: 9.9999999990m/s, Area: 442975.0m², Vol: 65318.2m³

Step 25500/29999, Sim Time: 7713.883s (+1.344e-01s), Max Depth: 0.9280291983m, Max Vel: 9.9999999990m/s, Area: 445000.0m², Vol: 65416.1m³

Step 25600/29999, Sim Time: 7727.322s (+1.344e-01s), Max Depth: 0.9330608268m, Max Vel: 9.9999999990m/s, Area: 444550.0m², Vol: 65517.9m³

Step 25700/29999, Sim Time: 7740.753s (+1.343e-01s), Max Depth: 0.9376019057m, Max Vel: 9.9999999990m/s, Area: 445725.0m², Vol: 65621.3m³

Step 25800/29999, Sim Time: 7754.177s (+1.342e-01s), Max Depth: 0.9422393013m, Max Vel: 9.9999999990m/s, Area: 446375.0m², Vol: 65725.5m³

Step 25900/29999, Sim Time: 7767.594s (+1.341e-01s), Max Depth: 0.9465907573m, Max Vel: 9.9999999990m/s, Area: 446825.0m², Vol: 65830.8m³

Step 26000/29999, Sim Time: 7781.004s (+1.341e-01s), Max Depth: 0.9497425260m, Max Vel: 9.9999999990m/s, Area: 447575.0m², Vol: 65936.1m³

Step 26100/29999, Sim Time: 7794.409s (+1.340e-01s), Max Depth: 0.9520257269m, Max Vel: 9.9999999990m/s, Area: 447800.0m², Vol: 66037.7m³

Step 26200/29999, Sim Time: 7807.811s (+1.340e-01s), Max Depth: 0.9542357042m, Max Vel: 9.9999999999m/s, Area: 448925.0m², Vol: 66135.0m³

Step 26300/29999, Sim Time: 7821.209s (+1.340e-01s), Max Depth: 0.9564338584m, Max Vel: 9.9999999990m/s, Area: 449400.0m², Vol: 66227.5m³

Step 26400/29999, Sim Time: 7834.604s (+1.339e-01s), Max Depth: 0.9584234834m, Max Vel: 9.9999999990m/s, Area: 448125.0m², Vol: 66312.6m³

Step 26500/29999, Sim Time: 7847.996s (+1.339e-01s), Max Depth: 0.9599468875m, Max Vel: 9.9999999990m/s, Area: 450175.0m², Vol: 66393.9m³

Step 26600/29999, Sim Time: 7861.386s (+1.339e-01s), Max Depth: 0.9612201825m, Max Vel: 9.9999999990m/s, Area: 449475.0m², Vol: 66470.0m³

Step 26700/29999, Sim Time: 7874.773s (+1.339e-01s), Max Depth: 0.9629460036m, Max Vel: 9.9999999990m/s, Area: 450550.0m², Vol: 66543.9m³

Step 26800/29999, Sim Time: 7888.157s (+1.338e-01s), Max Depth: 0.9651402346m, Max Vel: 9.9999999990m/s, Area: 452325.0m², Vol: 66616.9m³

Step 26900/29999, Sim Time: 7901.538s (+1.338e-01s), Max Depth: 0.9673254708m, Max Vel: 9.9999999990m/s, Area: 450800.0m², Vol: 66688.6m³

Step 27000/29999, Sim Time: 7914.915s (+1.338e-01s), Max Depth: 0.9690575504m, Max Vel: 9.9999999990m/s, Area: 450150.0m², Vol: 66757.8m³

Step 27100/29999, Sim Time: 7928.289s (+1.337e-01s), Max Depth: 0.9710368005m, Max Vel: 9.9999999990m/s, Area: 451575.0m², Vol: 66824.2m³

Step 27200/29999, Sim Time: 7941.661s (+1.337e-01s), Max Depth: 0.9729324375m, Max Vel: 9.9999999990m/s, Area: 451175.0m², Vol: 66890.7m³

Step 27300/29999, Sim Time: 7955.028s (+1.337e-01s), Max Depth: 0.9750564850m, Max Vel: 9.9999999990m/s, Area: 452175.0m², Vol: 66957.6m³

Step 27400/29999, Sim Time: 7968.393s (+1.336e-01s), Max Depth: 0.9771201507m, Max Vel: 9.9999999990m/s, Area: 452475.0m², Vol: 67024.4m³

Step 27500/29999, Sim Time: 7981.754s (+1.336e-01s), Max Depth: 0.9791123221m, Max Vel: 9.9999999990m/s, Area: 454425.0m², Vol: 67091.3m³

Step 27600/29999, Sim Time: 7995.112s (+1.336e-01s), Max Depth: 0.9809216744m, Max Vel: 9.9999999990m/s, Area: 456150.0m², Vol: 67157.4m³

Step 27700/29999, Sim Time: 8008.467s (+1.335e-01s), Max Depth: 0.9826487397m, Max Vel: 9.9999999990m/s, Area: 455900.0m², Vol: 67222.2m³

Step 27800/29999, Sim Time: 8021.820s (+1.335e-01s), Max Depth: 0.9839663489m, Max Vel: 9.9999999990m/s, Area: 455975.0m², Vol: 67286.7m³

Step 27900/29999, Sim Time: 8035.171s (+1.335e-01s), Max Depth: 0.9854799521m, Max Vel: 9.9999999990m/s, Area: 456775.0m², Vol: 67351.7m³

Step 28000/29999, Sim Time: 8048.519s (+1.335e-01s), Max Depth: 0.9871390159m, Max Vel: 9.9999999990m/s, Area: 457450.0m², Vol: 67413.4m³

Step 28100/29999, Sim Time: 8061.864s (+1.334e-01s), Max Depth: 0.9888837706m, Max Vel: 9.9999999990m/s, Area: 457775.0m², Vol: 67475.4m³

Step 28200/29999, Sim Time: 8075.207s (+1.334e-01s), Max Depth: 0.9908956918m, Max Vel: 9.9999999990m/s, Area: 458900.0m², Vol: 67539.1m³

Step 28300/29999, Sim Time: 8088.546s (+1.334e-01s), Max Depth: 0.9928539565m, Max Vel: 9.9999999990m/s, Area: 459725.0m², Vol: 67602.5m³

Step 28400/29999, Sim Time: 8101.882s (+1.333e-01s), Max Depth: 0.9945126692m, Max Vel: 9.9999999990m/s, Area: 459650.0m², Vol: 67666.1m³

Step 28500/29999, Sim Time: 8115.215s (+1.333e-01s), Max Depth: 0.9960451470m, Max Vel: 9.9999999990m/s, Area: 459000.0m², Vol: 67729.9m³

Step 28600/29999, Sim Time: 8128.547s (+1.333e-01s), Max Depth: 0.9976171704m, Max Vel: 9.9999999990m/s, Area: 459475.0m², Vol: 67794.4m³

Step 28700/29999, Sim Time: 8141.875s (+1.333e-01s), Max Depth: 0.9990765170m, Max Vel: 9.9999999990m/s, Area: 459650.0m², Vol: 67857.7m³

Step 28800/29999, Sim Time: 8155.202s (+1.333e-01s), Max Depth: 1.0005187474m, Max Vel: 9.9999999990m/s, Area: 459775.0m², Vol: 67920.5m³

Step 28900/29999, Sim Time: 8168.526s (+1.332e-01s), Max Depth: 1.0015777360m, Max Vel: 9.9999999998m/s, Area: 461100.0m², Vol: 67983.3m³

Step 29000/29999, Sim Time: 8181.849s (+1.332e-01s), Max Depth: 1.0027354905m, Max Vel: 9.9999999990m/s, Area: 462475.0m², Vol: 68047.0m³

Step 29100/29999, Sim Time: 8195.170s (+1.332e-01s), Max Depth: 1.0038950321m, Max Vel: 9.9999999990m/s, Area: 462950.0m², Vol: 68108.0m³

Step 29200/29999, Sim Time: 8208.489s (+1.332e-01s), Max Depth: 1.0049988648m, Max Vel: 9.9999999990m/s, Area: 463050.0m², Vol: 68167.8m³

Step 29300/29999, Sim Time: 8221.806s (+1.332e-01s), Max Depth: 1.0060823906m, Max Vel: 9.9999999990m/s, Area: 463825.0m², Vol: 68226.4m³

Step 29400/29999, Sim Time: 8235.122s (+1.331e-01s), Max Depth: 1.0074862829m, Max Vel: 9.9999999990m/s, Area: 462525.0m², Vol: 68285.1m³

Step 29500/29999, Sim Time: 8248.435s (+1.331e-01s), Max Depth: 1.0091099458m, Max Vel: 9.9999999990m/s, Area: 463300.0m², Vol: 68345.2m³

Step 29600/29999, Sim Time: 8261.745s (+1.331e-01s), Max Depth: 1.0106213123m, Max Vel: 9.9999999990m/s, Area: 462900.0m², Vol: 68405.5m³

Step 29700/29999, Sim Time: 8275.053s (+1.331e-01s), Max Depth: 1.0123829060m, Max Vel: 9.9999999990m/s, Area: 463900.0m², Vol: 68467.4m³

Step 29800/29999, Sim Time: 8288.358s (+1.330e-01s), Max Depth: 1.0143830056m, Max Vel: 9.9999999990m/s, Area: 465150.0m², Vol: 68531.0m³

Step 29900/29999, Sim Time: 8301.660s (+1.330e-01s), Max Depth: 1.0167364003m, Max Vel: 9.9999999990m/s, Area: 463950.0m², Vol: 68597.0m³

Step 29999/29999, Sim Time: 8314.825s (+1.330e-01s), Max Depth: 1.0186647366m, Max Vel: 9.9999999999m/s, Area: 466725.0m², Vol: 68664.2m³

Simulation finished 30000 steps in 246.72 seconds (wall clock).

Final Maximum Flood Extent Area: 974425.00 m²

Peak Recorded Water Depth Anywhere: 2.952 m

Phase 2 max depth: 1.019 m, steady state max depth: 0.734 m, rate of increase: 0.000034 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\_source2\_5\_rain6\_09375.mp4 (using ffmpeg)...

Animation saved.

Final frame saved to result\_source2\_5\_rain6\_09375\_final\_frame.png

Visualization finished.

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